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WOODRUFF'S

DESCRIPTIVE LIST OF

U S. DEPARTMENT OF AGRICULTURE

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U. S. DEPAREMENT OF AGRICULTURE



F. H. WOODRUFF & SONS, Inc.

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DESCRIPTIVE LIST OF VEGETABLE VARIETIES

SECOND EDITION



F. H. WOODRUFF & SONS, INCORPORATED Seed Growers

Main Office

MILFORD, CONNECTICUT, U.S.A.

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Woodruff's Descriptive List

This descriptive catalog has been prepared to give our dealers and customers access to accurate comparative information concerning the many varieties of vegetables predominantly in demand at the present time. It makes no effort to catalog all the known varieties either of the past or present. In it we have pooled our own trials and breeding experience with that of others to delineate more exactly the various small differences existing among many varieties.

When new varieties have made this information out of date, we expect to make necessary revisions in later editions. At no time do we expect to include in this list novelty varieties which will have no useful place in a descriptive list of vegetables.

Maturity dates noted in this list are the average number of days from seed planting to crop harvest in marketable or canning stage for all those varieties which are usually grown directly from seed. In the case of brussels sprouts, cabbage, cauliflower, celery, eggplant, pepper and tomato, the maturity dates show time from setting of plants in the field to crop harvest.

which have received recognition in the All-America Selections trials, the type of award and the year being shown also. The All-America Selections trials and awards have been sponsored by the American Seed Trade Association since 1933. New varieties are tested by expert judges in trials held in twenty different locations throughout the United States, and the identities of the varieties are concealed under code numbers to insure impartial judgment. The awards are based on points given for distinctiveness, general usefulness, adaptability and uniformity. Many of these A.A.S. varieties are really outstanding, and each year the announcement of the awards is an event of importance in the seed and vegetable industries.

In this list, many of the vegetable varieties considered suitable for quick freezing are indicated by a star (*) before the name.

ARTICHOKE

Cynara scolymus

GREEN GLOBE (PARIS)

Grown for edible flower buds. Perennial, producing first buds the second year from seed; flower buds large, globular, bud scales dark green and very fleshy at base. Not to be mistaken for the tuberous types of artichokes, GIRASOLE OF JERUSALEM ARTICHOKE (Helianthus tuberosus) or the CHINESE ARTICHOKE (Stachys sieboldii).

ASPARAGUS

Asparagus officinalis

*MARY WASHINGTON

Rust resistant. Developed by U. S. Dept. of Agriculture. Heavy yielder, producing large clusters of early, large, bright green spears with tightly folded purple tinted tips; fine quality and very uniform. Excellent for canning, freezing or market.

BEANS

Phaseolus vulgaris

DWARF GREEN POD
ASGROW STRINGLESS VALENTINE (STRINGLESS BLACK VALENTINE) ALEANERICA SELECTIONS Silver Medal 1933 52 days Pods: 6½-7 x 3/8-7/16", semi-round, curved at tip, stringless, slightly fibrous, dark green. Retains color well in distant shipping. Bush: 16-18", erect, dark green foliage, very productive. Seed: Small, oval, jet black.
Pods: 5½-6 x 3/8-7/16", oval, slightly curved or curved at tip, stringy and fibrous unless picked young, dark green. Used for early market. Bush: 13-17", erect, medium green, very vigorous and hardy. Fairly productive. Seed: Medium sized, oval, glossy jet black.
Pods: 6½-7 x ½-%6", flat to thick-flat, slightly curved, stringless but fibrous unless picked young, light green. Leading early local market and shipping variety. Bush: 16-18", erect, medium green, compact, vigorous and prolific. Seed: Medium size, squared ends, cartridge buff with brown eye spot, becoming darker with age.
Pods: 5½-6" x 3/8-7/16", round to slightly flattened, straight to curved at tip, stringless, fiberless, medium to dark green, excellent quality and flavor. Pods are formed high enough to clear the ground and retain their color well. Bush: 16-17", slightly spreading, dark green, vigorous, productive. Seed: Medium size and square ended, coffee or chocolate brown.
Pods: 5-5½ x 3/8-7/16", round, straight to curved at tip, stringless while young, fairly free of fiber, medium green. Used in South for green and dry shell bean. Bush: 14-18", erect, compact, medium green, productive. Seed: Small, oval, white.

Pods: 4½-5 x 5/8-3/4", semi-round, straight to slightly curved, stringless, fibrous, light green in snap stage, becoming pale yellow-green, with prominent splashes of scarlet or carmine in shell bean stage, beans prominent in pod. Used for canning in eastern United States. Used also as shell out bean.

Bush: 15-17", slightly sprawling, dark green, coarse foliage, leaflets slight-

ly crumpled; prolific, very vigorous.

Seed: Small, thick oval shape, pink tinged, buff ground color with irregular splotches of carmine or maroon.



TENDERGREEN

DWARF HORTICULTURAL, LONG POD 52-55 days

Pods 5-6 x \%6-5\%", flat at snap stage, oval at shell stage. Stringy, fibrous, light green at snap stage changing to chamois brightly splashed with carmine at shell stage, moderately indented between beans.

Bush: 15-18", erect, moderately vigorous, leaves large dark green, holds

pods up well.

Seed: Same as Dwarf Horticultural, though slightly larger.

Pods: 5 ³ / ₄ -6 ¹ / ₄ x ⁷ / ₁₆ -½", thick, flat, straight, moderately stringy and fibrous, medium light green, flesh thin, good quality and flavor. Bush: 16-18", erect and compact, dark green, foliage abundant, large moderately rugose.
Seed: Medium large, oval, slate gray mottling. Resistant to certain strain of rust and mosaic. Adapted to Southern States. Heavy yielding home garden and shipping variety.
Pods: 4½-6 x ½-¾6″, flat, practically stringless, moderately fibrous light green, plump, smooth, slightly creasebacked. Bush: 14-18″, erect, medium green foliage, vigor fair, moderate in yield over fairly long season. Seed: Medium size, oval, plump, rounded ends, ivory white.
Pods: 5½-7 x 5/8-3/4", oval, straight to slightly curved, stringy, fibrous used as shell bean, bright green splashed and streaked with carmine beans prominent in pods. Our strain is selected for pod length and brilliance of color. Bush: 20-26", erect, branching with short runners in later stages, brigh medium green, very prolific. Seed: Medium size, almost round, buff with scarlet or carmine splashing
 ★FULLGREEN
 ★FULL MEASURE
Pods: 6-6½ x ½-5%", round, straight to curved tip, stringless, fiberless almost free of parchment, medium to light green, marked indentation between beans. Bush: 16-17", similar to BURPEE'S STRINGLESS GREEN POD, but more erect plant and coarser foliage, medium green, hardy and productive. Seed: Medium, oval, ochre brown.
Pods: 4-5 x 3/8-7/16", semi-round to round, straight to slightly curved stringy, fairly free from fiber, light green, beans prominent in pod. Vines: Similar in type to BURPEE'S STRINGLESS GREEN POD. Hardy, vigor ous, prolific strain used in sections of South for early market. Seed: Small, thick short oval, bright sulphury yellow, with faint greenist or brownish eyespot.

IDAHO REFUGEE, MOSAIC RESISTANT	63 days
Pods: 5½-5½ x ½6-3/8″, round, fleshy, brittle, straight, slender less, fiberless, apple-green. Choice canning and freezing stratements bush: 15-18″, slightly larger and coaser leaflets than in REFUGEE LESS, but otherwise identical in plant type. Seed: Same as REFUGEE STRINGLESS, but shows smaller patches of splashing.	, string- in. STRING-
IMPROVED COMMODORE (DWARF KENTUCKY WONDER)	
Pods: 8-9 x 3/8-7/16", round, slightly curved and twisted; refine podded KENTUCKY WONDER type, almost stringless and medium dark green, tender, brittle, very good quality. Bush: 16-18", erect but bushy, dark green, vigorous, coarse leafled prolific.	d round iberless,
Seed: Large, slender kidney shape which is cylindrical in cross mahogany red.	section,
Pods: 6-6½ x ½", round, stringless, fiberless, rich dark green, s Vine: 18", upright, medium dark green, strong. Seeds: Medium size, oblong, medium brown, similar to BURPEE'S LESS. Adapted to both southern and northern areas.	olid.
Pods: 5½-6½ x 3/8-7/6", round or pencil podded, stringless, fibrous, medium dark green, very fleshy. Bush: 15", erect, medium green color similar to TENDERGREEN in ance. Very prolific in South. Seed: Medium size, elongated oval, purplish, speckled and splash tan. Originated by Dr. B. L. Wade at Charleston, S. C. Experiment by crossing U. S. NO. 5 REFUGEE and STRINGLESS BLACK VAL Used extensively in the South. Sets pods under heat and droug sistant to powdery mildew, mosaic, and tolerant of bacterial by	slightly appear- ned with t Station ENTINE. ght. Re-
★LONGREEN (TENDERLONG) \(\text{ALE-AMERICA}\(\text{ASSELECTIONS}\)\) Hon. Men. 1946	56 days
Pods: 6½-7 x ¾6-½", round, slightly curved, stringy and slightly at all stages, dark green, fleshy, crisp, and smooth. Bush: 17-18", open, erect, medium dark green. Seed: Medium large, oval, kidney shape, dull brown purple swith golden to medium brown. Similar to TENDERGREEN, but podded.	fibrous
LOW'S CHAMPION (RED CRANBERRY)	55 days
Pods: 4 ³ / ₄ -5 ¹ / ₂ x ¹ / ₂ -5/ ₈ ", flat, straight, stringless, fibrous, good medium to light green, noticeable indentations between bean for canning in eastern United States.	quality, s. Used
Bush: 14-16", erect, large leaved, dark green, vigorous and fairly tive.	produc-
Seed: Large, plump, almost round, blood red, with cream or but	f hilum.



MAMMOTH FAVA (AQUADULCE)

MAMMOTH FAVA, AQUADULCE LONG POD (Fava vicia) 72-78 days Pods: 9-16 per plant, usually 10-12, containing 5-7 seeds; 9-10½ inches long by 1-11/4 inches wide, straight, blunt, glossy ivory green at shell stage, turning to buckskin or pale buff when past table stage.

Plant: Erect, with 2-5 branches or divisions originating at base and growing to a height of 30-34 inches.

Seed: At green shell stage they are large, irregular in shape, slightly wedge shaped, thickest at eye end, $\frac{7}{8}$ x $\frac{3}{4}$ x $\frac{1}{2}$ inch, pale green or ivory color.

This is not a true bean, and its seasonal requirements are more nearly like those of peas. Generally used as a green shell bean by nationals of European origin in the U. S.

PLENTIFUL ALL-AMERICA AN SELECTIONS Bronze Medal 1939. Pods: $7-7\frac{1}{2} \times \frac{7}{16}-\frac{1}{2}$ ", flat to thick flat, straight to curved at tip, stringless, fairly free from fiber, medium green, popular early market and shipping variety.

Bush: 16-18", erect, medium dark green, hardy and vigorous; very prolific, shows resistance to some strains of rusts.

Seed: Large, flattened oval, glossy jet black.

RANGER ALL-AMERICA DISELECTIONS Bronze Medal 1947 56 days
Pods: 4 ³ / ₄ -5 x ³ / ₈ - ⁹ / ₁₆ ", round, essentially straight, stringless, low in fiber,
light green.
Bush: 18-22", some half runners, open, scattered set, and has foliage
similar to REFUGEE beans. Seed: Small, cylindrical, white. Can be used as green or commercial bean.
seed. Sman, cymanear, winte. Can be used as green of commercial bean.
Pods: 4½-5 x 3/8-7/16", curved, thick oval to round, creasebacked, stringy and fibrous, medium green, brittle, fair quality. Old home garden variety still occasionally used in South.
Bush: 12-15", fairly compact, erect, light to medium green, moderately productive.
Seed: Medium sized, oval, buff heavily splotched with red.
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REFUGEE STRINGLESS GREEN POD 67 days
Pods: 5-5½ x 5/16-3/8", round, fleshy, brittle, straight, slender, absolutely stringless, very little fiber or parchment, pale or apple green. Choice canning and freezing bean.
Bush: 15-18", erect but very spreading, dense, small leaves, dark green
foliage, very vigorous, hardy and prolific. Seed: Small, cylindrical, golden brown splashed with dark violet purple.
seed. Sman, cynnuncai, golden brown spiasned with dark violet purple.
RIVAL (USDA No. 6)
 Pods: 6½ x ¾6-½", round to oblate, very slight curve. Smooth at prime stage but seed becomes prominent as pod matures, free from fiber or strings, medium dark green. Bush: 15-16", erect, medium green with adequate foliage. Seed: Medium large, long oval, purplish with light cream mottling. Very high quality and exceedingly prolific. Concentrated berrying habit. Resistant to mosaic and has ample vigor; thus is tolerant of most other diseases. Developed by Dr. W. J. Zaumeyer of U.S.D.A., Beltsville, Maryland.
Pods: 7-9 x 3/8-7/6", flat to thick flat, straight to very slightly curved, stringless, medium green, tender until full maturity. Valuable addition to early market and home garden varieties; also suitable for use as dry bean.
Bush: 14-18", erect, well branched, compact, medium green, shows some frost tolerance, hardy, vigorous, productive over long period. Seed: Medium sized, oval, white.
STRINGLESS RED VALENTINE
Pods: $4\frac{1}{2}$ -5 x $\frac{3}{8}$ - $\frac{7}{16}$ ", stringless, otherwise similar to old strains of RED
VALENTINE.
Bush: Similar to RED VALENTINE. Seed: Same as RED VALENTINE

Pods: 5½-6 x ½-6, round, curved at tip to slightly curved, stringless, fiberless, medium to dark green, fleshy, brittle, good quality, desirable for freezing.

Bush: 15-16", very erect, compact, coarse, heavy, dark green foliage,

vigorous.

Seed: Large, plump, oval, dull brown purple splotched with golden to medium brown. Standard variety for market gardeners and processors.

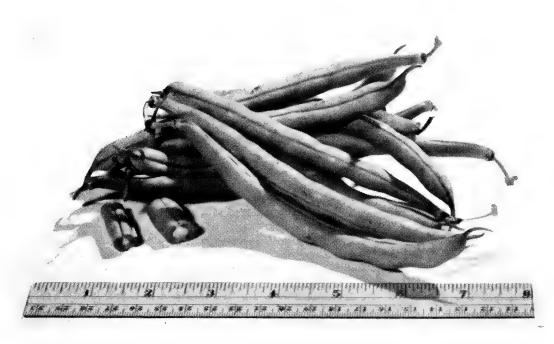
TENNESSEE GREEN POD (BROWN BUNCH) . . . 49-52 days

Pods: 6-7 x 5/8 -3/4", very broad and flat, curved, stringy, fiberless, medium green, beans prominent in pods, good flavor.

Bush: 13-17", very branched and spreading, very dark green, hardy,

prolific.

Seed: Medium sized, broad, flat, brown with faint eyespot.



TOPCROP

*TOPCROP ALL-AMERICA TO SELECTIONS Gold Medal 1950 . . . 52-54 days

Pods: 5-5½ x 3/8-7/16", round, slightly curved, smooth, slightly creaseback in later stages; flesh thick, entirely stringless and without fiber, medium dark green.

Bush: 15-16", erect, vigorous, medium light green, pods borne low.

Seed: Small, oval, brown mottled.

Immune to common bean mosaic and highly tolerant of "greasy pod." Adapted to a wide range of conditions and localities. Developed by Dr. W. J. Zaumeyer of U.S.D.A., Beltsville, Maryland.

Pods: 5-5½ x 5/16-3/8", round, brittle, fleshy, straight, slender, stringless, fiberless and without parchment, medium green. Excellent for canning.
Bush: 15-18", spreading, dark green, vigorous. Seed: Small, cylindrical, blue purple with light markings.
DWARF WAX PODDED
Pods: 6½ x ¾6″, oval flat, nearly straight. Tender and stringless at all stages, slightly fibrous, golden yellow, good quality. Bush: Large and erect, medium green. Seed: Small, round, kidney, black. Developed by Dr. W. C. Barnes of South Carolina.
Pods: $5\frac{1}{2}-6\frac{1}{2} \times \frac{1}{2}-5\frac{1}{8}$, semi-flat to semi-round, straight, moderately fleshy, stringless but fibrous, fair quality, light yellow. Used as cut bean for canning.
Bush: 14-16", erect, vigorous, bushy, moderately coarse foliage, medium green, very prolific.Seed: Medium size, long kidney shape, chalky white.
Pods: 4-5½ x 5/16-7/16", slightly oval, smooth, stringless, low in fiber, almost white with pale yellow line along both sutures, good quality. Bush: 18", erect, bushy, vigorous, lacking in runners, light green, resistant to common bean mosaic and tolerant of heat and drought. Seeds: Small to medium, cylindrical with round tapered ends, shiny and dark chestnut brown.
MPROVED GOLDEN WAX
Pods: 4-4½ x 3/8-1/16", semi-flat, straight, stringless but fibrous, light yellow, fair quality. Used for home gardens.
Bush: 13-16", erect, stocky, medium green, fairly vigorous, moderately productive.
Seed: Medium sized, short oval, white with dark purplish-brown eyespot.
MPROVED KIDNEY WAX
Bush: 14-17", erect vigorous, bushy, medium green, dense, moderately coarse foliage, productive.
Seed: Medium small, kidney shape, snow white with large black eye.

★KINGHORN SPECIAL
 Bush: 16-18", vigorous, medium large leaves of medium green color, highly productive under favorable conditions. Seed: Medium small, long kidney shape; clear white with no eye markings. Similar to ROUND POD KIDNEY WAX except for clear white seed. Exceptionally good for canning and freezing.
PENCIL POD BLACK WAX
Seed: Small, cylindrical, glossy jet black.
Pods: 6-6½ x 3/8-7/6", semi-round to round, straight to curved at tip, fleshy, stringless, almost free of fiber, golden yellow. Excellent quality for cut wax beans and whole pack and freezing. Bush: 15-17", erect, spreading, vigorous, hardy, coarse, medium green foliage, very prolific under good conditions. Seed: Medium small, kidney shape, white with black eye.
Pods: 5-6 x 7/16-1/2", thick-flat, straight to slightly curved, stringless, very little fiber, bright buttery yellow. Most popular of wax podded for early market or home garden. Bush: Similar to BOUNTIFUL. Seed: Medium large, oval, jet black.
TOP NOTCH GOLDEN WAX
eye. Excellent home and market garden variety.
Pods: 5-5½ x ½6-½″, semi-round, straight, tender, stringless, fiberless when young, attractive pale yellow. Bush: 12-14″, stocky, vigorous, dark green, productive. Seed: Small, oval, glossy yellowish brown.
FIELD BEANS
GREAT NORTHERN (MONTANA WHITE)

Pods: 5½-6 x ½-6 x ½-638", thick-flat, stringy, fibrous, unpalatable. Used for baking bean in New England and New York. Bush: 15-20", erect, branched, large leaved, compact, medium green, productive. Seed: Medium large, thick oval, white with brownish orange-yellow eye-
spot. KIDNEY, DARK RED
Seed: Large, kidney shape, deep mahogany red, 5-6 in a pod. KIDNEY, LIGHT RED
Pods: 5-5½ x ¾6-½″, thick-flat, fibrous and stringy, unpalatable. Bush: 30″, vigorous, semi-vining, dark green, productive, hardy. Seed: Medium large, short oval, white.
MICHELITE (IMPROVED NAVY)
NAVY (BOSTON PEA, MICHIGAN NAVY, WHITE NAVY) . 93 days Pods: 3-3½ x ½6-3%", thick, flat, tough, stringy, unpalatable. Bush: 30", with strong tendency to vining, dark green, hardy, vigorous, very prolific. Seed: Small, rounded oval, white.
PINTO
Pods: 3-4 x 7/16-5/16", oval, slightly curved, short narrow, stringy, fibrous and tough, light greenish white. Bush: Similar to NAVY BEAN. Seed: Short, plump, dull white with gray vein like markings.
WHITE KIDNEY (ROYAL DWARF KIDNEY) 100 days Pods: 5½-6 x ¾6-¾6", thick, flat, stringy, fibrous, unpalatable. Bush: 16-22", erect, branched, heavy stemmed, productive. Seed: Large, long kidney shape, white.

GREEN PODDED POLE

ALABAMA No. 1 GREEN POD

good quality and flavor.

Pods: 6-6½ x 3/8-7/16", rounded oval, creaseback, moderately fleshy, stringy except at very young stage, slightly fibrous, soft dark green,

. 65-70 days

Vines: 5½-6', abundant dark green foliage stained purplish bronze at nodes.
Seeds: Comparatively small, long oval, glossy black. Popular in southern states as a cornfield bean.
ALABAMA No. 1 PURPLE POD Similar to ALABAMA NO. 1 GREEN POD except that its pods are stained dull purple along sutures and part of surface.
ALABAMA CREASEBACK
productive. Seeds: Moderately small, long oval, glossy black. Similar to BLACK CORNFIELD but more vigorous and productive; and several days later.
BLACK CORNFIELD (IDEAL MARKET, BLACK CREASEBACK, BLACK VALENTINE POLE)
BLUE LAKE STRINGLESS, BLACK SEEDED (STRINGLESS BLACK CREASEBACK, STRINGLESS IDEAL MARKET) 60 days Identical with BLUE LAKE STRINGLESS, WHITE SEEDED, except that the seed is black.
★BLUE LAKE STRINGLESS, WHITE SEEDED (WHITE CREASEBACK STRINGLESS)
CUTSHORT (RED SPECKLED CUTSHORT, CORN HILL). 72-75 days Pods: 3-4 x 5/16-7/16", thick oval to round, slightly curved, fleshy, brittle, almost free of stringiness, slightly fibrous, medium to dark green, fair to good quality. Vines: 4-5', loose twining, vigorous, medium to dark green, productive over long leason. Seed: Small, variable shape because of being compressed in pods, dingy

gray with reddish brown eyespot and splashing.

Pods: 7½-9 x ¾-78″, flat, broad, straight to slightly curved, stringy, fibrous, tough, light green, poor to fair quality.
Vines: 4-4½', good climber, rank grower, medium to light green, fairly productive.
Seed: Very large, flattened broad oval, ivory white.
GENUINE CORNFIELD (SCOTIA, NANCY DAVIS, STRIPED CREASE-BACK)
Pods: 5-6 x 3/8-7/16", round, straight to slightly curved, stringless while young, moderately fibrous, fleshy, medium green becoming purple splashed Popular pole bean in the South. Vines: 4½-5', good climber, hardy and vigorous, medium green, prolific.
Seed: Medium small, oval, greenish buff splashed with cinnamon.
KENTUCKY WONDER (OLD HOMESTEAD, TEXAS PROLIFIC) 65 days
Pods: 7½-9 x ½6-½", almost round, slightly curved and twisted, rough corrugated surface, brittle and tender, slightly stringy but fiberless, medium green; pods borne in clusters.
Vines: 5-6½, good climber, vigorous, hardy, prolific, large leaved, dark green; widely adapted.
Seed: Medium small, very flat, oval, variable shades of gray brown to chocolate brown.
Pods: 7-7½ x 3/8-7/16", straight to slightly undulant and curved, rounded oval, smoother than KENTUCKY WONDER or OLD HOMESTEAD, stringless, very little fiber, medium green. Vines: 4½-5', fairly vigorous, good climber, productive, resistant to several strains of rust, dark green. Seed: Medium small, flat oval, grayish brown.
KENTUCKY WONDER 191, WHITE SEEDED (BURGER'S STRING- LESS GREEN POD)
Pods: 6-7 x 7/6-9/6", thick oval to round, curved, stringless and fiberless, very brittle and tender, fleshy, dull silvery green, excellent quality. Vines: 4-5', good climber but only moderately vigorous, medium green, fairly productive. Seed: Medium large, long flat oval, white.
KING HORTICULTURAL (MAMMOTH, HAMPDEN, WORCESTER
SPECIAL)
tough, unpalatable except when very young, medium green with scarlet splashings.
Vines: 5-7', fairly good climber, not too vigorous or productive but hardy, medium green. Seed: Very large, very broad, thick oval, color like LONDON HORTICUL-
TURAL.

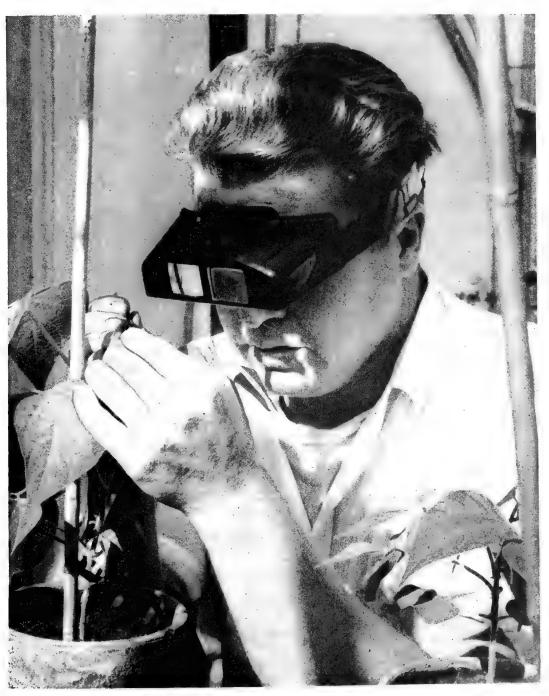
	Y WIFE (WHITE CRANBERRY, WHITE CHERRY) . 74-78 days
F	Pods: 5-6 x 5/8-3/4", broad, flat, beans very prominent, straight, rarely curved, stringless, almost fiberless, fleshy, brittle, fine textured, dark to medium glossy green, good quality. Excellent home garden snap or shell bean; also used as dry bean.
	Vines: 4½-½', poor climber at start but rank grower later, productive over long period, medium glossy green. Seed: Small, almost globular, ivory white.
	AN GIANT
S S	Vines: 5-6', good climber, medium dark green, very productive, vigorous. Seed: Medium large, broad oval, mottled gray and light purple.
	DON HORTICULTURAL (SPECKLED CRANBERRY, WREN'S EGG,
F	Pods: 6-7 x 5/8-3/4", flat oval, straight to slightly curved, stringless, almost fiberless, not fleshy, dark green in snap stage becoming yellow green splashed with bright carmine in shell stage, fair quality. Vines: 4-4½', good climber, vigorous, dark green, prolific. Seed: Large, broad very plump oval, light buff sparsely splashed with dark red.
F \	Pods: 7-8 x ½-¾6", broad, flat, irregularly curved, stringless when young, very little fiber, fairly brittle and tender, fair quality, dark green. Vines: Very similar to KENTUCKY WONDER, WHITE SEEDED but slightly earlier and more productive. Seed: Medium size, oblong, ivory white.
MIS:	SOURI WONDER (NOXALL, NANCY D.) 63-67 days
	Pods: 5½-6 x ½-6 x ½-7, thick oval to round, curved, stringy, fibrous, tough, poor quality, medium green, lighter colored than KENTUCKY WONDER. /ines: 5-6′, good climber, dark green, productive, vigorous. Seed: Large, fairly plump oval, soft gray splashed with drab.
7	GON GIANT
7	Pods: 5-6 x ½-5/8", broad, thick flat, beans very prominent, straight to very slightly curved, stringless while very young becoming stringy, fibrous and tough in shell bean stage, medium to dark green. Vines: 12-17', excellent climber, coarse medium dark green foliage, vigorous, hardy, very prolific over long season. Used for ornament. Seed: Very large, very thick broad oval, reddish purple splashed with blue black.

STRIPED HALF RUNNER.

Pods: 4-5" long, round, tender with strings.

Vines: 3½', heavy, prolific.

Pods: 7-9 x \%6-5/8", round, straight to partially sickle shaped, beans prominent, almost stringless, fiberless, light green, tender, brittle, coarse textured, fair to good quality.



ABOVE, ONE OF OUR PLANT BREEDERS IS PERFORMING THE DELICATE OPERATION OF CROSS-POLLINATING A BEAN FLOWER.

Seed: Medium large, long oval, mottled mouse gray and buff with black striping and eyespot.
 ★WHITE CREASEBACK (BLUE LAKE, WHITE CORNFIELD, FAT HORSE) Pods: 5½-6 x ¾-¾6″, round, slightly curved, tender, fleshy, stringless and fiberless when young, medium green, excellent quality; used in canning and freezing. Vines: 4-5′, good climber, vigorous, productive, dark green foliage, bears over long season. Seed: Small, oval, ivory white; also suitable for dry shell bean.
 WHITE DUTCH RUNNER (Ph. multiflorus) 88-93 days Pods: 4½-5 x ¾-7½6″, round, straight to curved at tip, stringless while young, fairly free of fiber, medium green. Vines: 3½-4′, good slender climber, bushy growth at bottom, medium green foliage, prolific. Seed: Large, thick, broad, oval, white.
 YARD LONG (ASPARAGUS)
WAX PODDED POLE
Pods: $6\frac{1}{2}$ - $7\frac{1}{2}$ x $\frac{5}{8}$ - $\frac{3}{4}$ ", straight, flat, broad across the back, creaseback, long curved point, stringy, slightly fibrous, light waxy yellow, very fleshy, fine grained, fair quality. Vine: 4-5', large, very vigorous, climbs well, hardy, productive. Seed: Medium large, broadly oval in outline, oval in cross section. Surface occasionally wrinkled, ivory white.
Pods: 8-9 x ½-¾", stout, almost straight, squarish in cross section, distinctly creasebacked, with very short curved point, moderately stringy, fiberless when young, very light yellow, very brittle, moderately coarse grained, fair quality. Vine: 5-6½', medium in size, climbs well, moderately open, very early, productive, dark green. Seed: Medium size, oblong or reniform, very flat, dark chocolate brown

Vines: 4-4½', good climber, purple shading on entire medium green plant, only moderately productive.

with a varnished appearance.

BUSH LIMAS

Doday 416 5 vr 1 116 " vrome flot 1 . 4 4" + 11 1 . 1
Pods: 4½-5 x 1-1¼", very flat, curved at tip to slightly curved, dark dull green, large seeded.
Bush: 14-20", erect but semi-sprawling with occasional short runners.
vigorous, heavily productive, light to medium green foliage. Seed: Large, flat, pale green in edible stage; large, broad, oval, rather
triangular, flat, dull chalky white in seed stage.
BURPEE'S IMPROVED BUSH
Pods: 4½-5½ x 1-1¼", flat, medium green, curved, large seeded. Bush: 16-20", erect, spreading, very vigorous and productive, glossy dark
green foliage.
Seed: Large, flat, pale green in edible stage; large, oval, flat, green tinted white in dry stage.
★CANGREEN TALL-AMERICA STREETHONS Hon. Mention 1943 65-70 days
Pods: Same shape and size as HENDERSON's but darker with bronze green color when ripe.
Bush: Practically identical with HENDERSON but yield more concentrated.
Seed: Same size but slightly thicker or plumper than HENDERSON, light green integument with flesh or cotyledons of deeper green.
*EARLY MARKET (U.S. 142) ALL-AMERICA W SELECTIONS Bronze Medal 1945 73 days
Pods: 4½-5½ x 1-1½", medium thick, dark green, curved with 3-4 beans per pod.
Bush: 16-18", spreading, vigorous, dark green, heavy yielder of early beans.
Seed: Large, flat, green in edible stage; broad, flat, greenish cream in dry stage.

★FORDHOOK
*FORDHOOK

 ★HENDERSON	
 JACKSON WONDER (CALICO)	
PEERLESS (U.S. 243) ALL-AMERICA SELECTIONS Bronze Medal 1948 72-80 days Pods: 3-3½ x 7/8", medium curved, eliptical to oval. Pod slightly depressed between beans. Bush: About same size as HENDERSON, medium gray green. Seed: Uniform in size, round, thick, slightly wrinkled. Light cream with greenish tint. A small FORDHOOK type seed. Developed by Dr. Roy Magruder and Dr. R. E. Wester of U.S.D.A.	
TRIUMPH (U.S. 343) ALEMERICA SELECTIONS Bronze Medal 1947 70-78 days Pods: 2½-3 x ½-15½6", very thick, borne in clusters under foliage at base of plant. Bush: 12-16", compact glossy dark green. Seed: 3-4 to a pod. Same sieve size as HENDERSON's but thicker and better quality. Green when in edible stage; irregular in shape, thick, wrinkled and cream skin color in seed stage. Developed by Dr. Roy Magruder and Dr. Robert E. Wester of the U.S.D.A. High yield and excellent quality.	
 WOODRUFF'S PROLIFIC	
WOOD'S PROLIFIC	
POLE LIMA	
CARPINTERIA	

20

Vines: 7-9', vigorous climber, medium green, moderately productive. Seed: Large, fairly plump, broad oval, green tinged white to dull white in seed stage.

CHALLENGER (DREER'S IMPROVED, POLE FORDHOOK, BURPEE'S BEST)
Pods: 4-4½ x 1-1¾", moderately curved, flat to thick flat, medium dark green, smooth. Vines: 6-8', good climber, vigorous and moderately productive, medium to dark green. Seed: Medium large, broad flattened oval, green tinged white in seed stage.
 FLORIDA BUTTER SPECKLED
FORD'S MAMMOTH
GIANT BUTTER SPECKLED
Pods: 5½-6½ x 1/8-1¼", thick flat, moderately straight although somewhat curved and twisted, dark dull green, smooth. Vines: 10-14', moderately vigorous and productive, medium to dark green, good climber. Seed: Large, broad oval, flat, dull white, occasionally green tinged.
Pods: 6-7 x 1½-1¼", flat, curved, medium light green. Most popular pole lima; also adaptable to freezing. Vines: 8-10', vigorous climber, dull medium green, heavily productive over moderate season. Seed: Large, nearly semi-circular, fairly plump, pale green in edible stage; same but flat to thick flat and green tinged dull white in seed stage.

Pods: 5½-6½ x 1½-1½", moderately curved, flat, dark dull green. Vines: 10-14', moderately vigorous, fairly productive, medium dull green. Seed: Large, long, broad plump oval, dull white in seed stage. This is probably the ancestor of most of the present day limas.
Pods: 4½-5 x 1-11/8", straight to curved at tip, thick flat, medium light green. Vines: 7-9', fairly vigorous, hardy, productive, dull medium green. Seed: Large, broad, flattened oval, dull white in seed stage.
SEIBERT'S EARLY
 SIEVA (CAROLINA, SEEWEE, SMALL WHITE) 85-89 days Pods: 3-3½ x 5/8-3/4", straight to curved at tip, flat to thick flat, medium green, smooth. Vines: 9-12', vigorous climber, early, moderately productive, very dark glossy green. Seed: Small, flattened oval tending to triangular, dull to chalky white in seed stage.
WILLOW LEAF
BEET Beta vulgaris
Roots: 2½-3" in diameter, short top shape, with medium tap root, dark red, fairly smooth skin; interior very dark red with occasional traces of faint zoning. Choice market type. Tops: 12-14", with glossy medium green, medium broad leaf blade; medium collar.
CRIMSON GLOBE

CROSBY EGYPTIAN
Roots: Similar to EARLY WONDER, with higher percentage of roots flat globe and squarer shoulder. Lighter internal color than EARLY WONDER
and more distinct zones.
Tops: Similar to EARLY WONDER, but medium collar. This variety becoming obsolete because of less desirable interior color.
DETROIT DARK RED (TALL TOP STRAIN)
Roots: 2½-3" in diameter, globe shaped symmetrical, slightly flattened on top, medium sized tap root, dark red, smooth skin; interior very dark red with faint indistinct zones; tender fleshed, giving excellent quality as diced or small whole beets. Also suitable for freezing while young.
Tops: 18-22", with glossy dark green, medium wide leaf blades which remain smooth; small to medium collar.Adapted to mechanical harvesting. Widely used in East as a market garden beet because of attractive tops and smooth skin.
★DETROIT SHORT TOP
Roots: 2-2½" in diameter, distinctly globe shaped, with small tap root, dark red skin; corky on top, interior very dark or blackish red with faint, indistinct broken zones of dark carmine red, brittle flesh. Most desirable for whole pack or freezing.
Tops: 12-15", with glossy dark green, narrow leaf blades which are slightly crumpled; small collar. A very uniform line. Used by southern growers as a shipping variety to avoid freight on large tops.
EARLY BLOOD TURNIP
Roots: 2½-3" in diameter, fairly uniform top shape, medium tap root, medium dark red smooth skin; interior medium dark red with thin distinct zoning, brittle flesh. Home garden and local market strain.
Tops: Similar to EARLY WONDER, mostly green leaved; medium to small collar.
EARLY RED CHIEF 50-52 days
Roots: 2-2½" in diameter, globular, small tap roots, dark red smooth skin, very uniform in size and shape; interior dark red and zoning inconspicuous. Choice strain for early market.
Tops: 12-16", similar to EARLY WONDER in type; small collar.
EARLY WONDER 49-52 days
Roots: 2½-3" in diameter, flat globe to short top shape with small tap root, dark red, smooth skinned; interior dark red with thin distinct zones of magenta tinged medium red, very tender and rapid growing. Suitable for diced packs in northern latitudes.
Tops: 14-16", with glossy, medium green, broad, short, triangular shape leaf blade which remains smooth; small collar. Leaves remain green in fall when frost reddens other varieties.

CROSBY EGYPTIAN



INSPECTING BEETS ON OUR FARM AT MILFORD.

Roots: 2-2½" in diameter, almost globular, with medium tap root, medium dark red, fairly smooth skin; interior bright red with indistinct pink zones Market and home garden type.

Tops: 15-17", fairly coarse, light green leaf, almost smooth blade; medium collar.

Roots: 2³/₄-3¹/₄" in diameter, top or turnip shaped, medium tap root, medium dark red fairly smooth skin with medium dark red interior variably zoned with lighter red. Main crop or late home garden type for winter storage.

Tops: 15-17" large, broad leaf blades, mostly green; medium collar.

EXTRA EARLY DARK RED EGYPTIAN (FLAT EGYPTIAN) 49-51 days

Roots: 2½-3", flat to flat globe with very small tap root, very dark skin and dark red interior, occasionally faintly zoned. Earliest market type where diameter of bulb is prime consideration rather than total tonnage. Used extensively for transplanting to force for early market.

- Roots: 2-2½" diameter, globular, medium to small tap roots, slow grower; dark red smooth skin with dark red interior, occasionally faintly zoned. Canning strain developed as selection from DETROIT DARK RED.
 - Tops: 13-16", long, narrow, slightly crumpled leaf blade; much smoother than SHORT TOP DETROIT, medium dark green; medium sized collar.
- - Tops: 15-19" medium, erect, clean grayish green. A very saleable beet, with foliage that remains green in cool weather.
- - Tops: 17-20", with glossy medium green, long, narrow, slightly crumpled leaf blades; small collar.
- **LONG SMOOTH BLOOD** (**LONG DARK BLOOD**) . . . 75-80 days Roots: 2-2½ x 8-10", long cylindrical with abruptly tapered tip, medium to large tap root, smooth purplish red skin and deep purplish red interior with only slight traces of zoning; growth is partially out of ground. Important as late winter storage type.
 - Tops: 18-22", medium green to bronze, large broad leaf blades; medium to large collars.
- - Tops: 14-18", large elongated, glossy green leaves, with pale pink midribs that remain free from frost discoloration. Excellent quality but only adapted to home garden.
- OHIO CANNER ALL-AMERICA STREETHONY Silver Medal 1933. . . 62-65 days Roots: 13/4-21/2" in diameter, deep oblate to globular at canning stage, developing from short top shape when younger; medium to large tap root; dark red, fairly smooth skin with very dark red interior, only rarely showing indistinct lighter zones. Because of slow growth this is chiefly a canning strain.
 - Tops: 13-16", medium sized oval leaf blades, smoother than SHORT TOP DETROIT, glossy green, medium to medium large collar. This variety is related in parentage to PERFECTED DETROIT, but matures later.
- Roots: 2½-3" in diameter, almost globular at dicing stage developing from elongate globe at early market stage; medium to large tap roots; vigorous, rapid grower; dark blood red, fairly smooth skin with blood red interior occasionally showing faint indistinct zones. Small collar, uniform size. Used mainly as a market garden strain but also suitable for canning.
 - Tops: 16-19", large, broad oval leaf blades, partially crumpled, dark glossy green; becoming tinged red in fall; mostly medium collars.

MANGEL

MANGEL WURZEL or STOCK BEET

Beta vulgaris var. saccarifera

ECKENDORF, YELLOW
Good yielder; roots shaped like GOLDEN TANKARD, large, flesh is tinged with yellow, tops are small and apple green. Grown for stock feed.
GIANT HALF SUGAR, GREEN TOP
GIANT HALF SUGAR, ROSE TOP
GOLDEN TANKARD
MAMMOTH LONG RED
SLUDSTRUP (DANISH SLUDSTRUP, GIANT YELLOW INTERMEDIATE, BARRES SLUDSTRUP)
SUGAR BEET Beta vulgaris var. saccarifera
Most desirable sugar beet; also excellent for stock feed because of high sugar content; roots 12-16" long, 4-5" in diameter at shoulder, tapered grayish white; good keeper, heavy cropper.
LANE'S IMPERIAL (VILMORIN'S IMPROVED WHITE, WHITE FRENCH)

SWISS CHARD

Beta vulgaris var. cicla

BROAD RIB GREEN (WHITE SILVER RIBBED)	53-58 days
Plants: 14-20" tall, erect, virgorous, compactly bunched. Leaves: Noted for prominent broad and thick, green tinted, wh leaf blade 6-8" broad, 6-8" long, bright green, slightly crum	
COMMON GREEN (SPINACH BEET)	. 55 days
 Plants: 12-14" tall, sprawling, moderately vigorous. Leaves: Smooth, medium size, glossy dark green, with slender grandribs. Sometimes called Perpetual Spinach. 	reen tinted
Plants: 16-24" tall, hardy, vigorous, prolific and compactly bur Leaves: Lucullus type, but petioles are broader and thicker of and are more creamy tinged white than green tinted white; 9-10" long, glossy dark blue green, much crumpled, with incurved tip similar to LONG STANDING BLOOMSDALE SPINACE.	nched. on average leaf blades h rounded
Plants: 16-22" tall, hardy, vigorous, compactly bunched. Leaves: Leaf blade 5-7" broad, 9-12" long, medium apple gree crumpled, petiole is creamy yellow and slender.	
BROCCOLI Brassica oleracea var. italica	
 ★CALABRESE (ITALIAN GREEN SPROUTING) 6 Heads: 2½-4" in diameter, formed of bright green compact from leaflets; sprouts developing after main head is cut are in diameter and of similar type as main head. Distinctive fider; used for canning, freezing and market. Plants: 24-30" tall, very leafy, blue green foliage, making eroplant. 	buds, free e $\frac{3}{4} - \frac{11}{2}$ " lavor, ten-
 ★DI CICCO	ch and as Especially
★PROPAGENO EARLY	n leaflets. larly valu- t shippers.

BROCCOLI-RAAB

Brassica napus cultivar

FALL Winter annual making heavy compact top growth with 1" flower head early in spring for greens. Leaves are broad strapleaf turnip type. Grows 18-24" tall before going to seed. Used as early market greens.
SPRING Same as FALL BROCCOLI-RAAB, but must be planted in spring, since it will not winter over. This is annual and shoots to seed rapidly. Used also as early market greens.
BRUSSELS SPROUTS Brassica oleracea var. gemmifera
★LONG ISLAND IMPROVED
PARIS MARKET
CABBAGE Brassica oleracea var. capitata YELLOWS RESISTANT VARIETIES
FIRST EARLY
Plants: A resistant type of Golden ACRE, with slightly larger plant. Plant habit slightly different from Golden ACRE. Coarser, more open leaves. Heads: Very similar to Golden ACRE or Copenhagen Market, with creamy white interior.
JERSEY QUEEN
Plants: Similar to COPENHAGEN MARKET, dependable, early and uniform Heads: 6½-7" round, with slight tendency to become pointed; solid, a steel gray green color to leaves. A good quality, excellent early shipper or used as early kraut.

MARION MARKET (RESISTANT COPENHAGEN MARKET) 75-78 days Plants: Medium size, with larger leaves and more spreading plant habit than COPENHAGEN MARKET, deeper blue green than COPENHAGEN MARKET. Heads: Globe, 6½-7½" in diameter, weigh 4-5 lbs., hard; fine grained, creamy white interior, tender and crisp fleshed, medium core. Usually not as uniform as good strains of COPENHAGEN MARKET. SECOND EARLY Plants: Similar to ALL HEAD EARLY, though a little darker color. Heads: Flattened globe 9-10" broad, weigh 7-7½ lbs. Plants: Large, spreading, vigorous, medium green, moderate bloom. This is yellows resistant selection of GLORY. Heads: Large, flattened globe, 8-9" diameter, weigh 5½-6 lbs., hard; interior creamy white with medium grain and medium sized core. It is used extensively for fall planted kraut. Plants: Yellows resistant selection from ALL SEASONS; similar to ALL SEASONS, but not as uniform. Heads: Similar to ALL SEASONS, but with coarser textured interior. Very valuable as a substitute for regular ALL SEASONS in an infested location. Used chiefly for kraut and winter storage. LATE OR MAIN SEASON . . 95-100 days WISCONSIN BALLHEAD Plants: Similar to DANISH BALL HEAD type. More uniform than WISCONSIN HOLLANDER NO. 8, but of a similar type. Heads: Globular to flattened globe 7-8", similar to WISCONSIN HOLLANDER, but smaller, more uniform and harder. Good quality. WISCONSIN BALLHEAD IMPROVED 100-105 days Plants: Slightly taller and not as broad as DANISH BALLHEAD, with similar type leaf. Heads: 6-7", more nearly spherical with more head weight and less leaf weight than DANISH and WISCONSIN BALLHEADS. Tends to outvield them and stands better without bursting after maturity. Has narrower and shorter core. Similar to WISCONSIN HOLLANDER except for color. Yellows resistant and excellent for main crop. Globular heads 6" diameter are used for shipping and storage.

Plants: Very large, with large upright leaves, color deep blue green which becomes red tinged in late fall, heavy bloom. Heads: Large, 7½-8½", globe to slightly flattened globe, weigh 7½-9 lbs., compact, hard, with interior creamy white to pale yellow, coarser grained than DANISH BALLHEAD, with medium core.
WISCONSIN HOLLANDER NO. 8
STANDARD VARIETIES
FIRST EARLY
Plants: Small, medium broad, upright leaves, compact, medium blue green, short stem. Extra early market or home garden type. Heads: 4½-5½" broad at base, 6½-7" deep, weigh 2-2½ lbs., pyriform, more pointed than CHARLESTON WAKEFIELD; interior greenish white, fairly solid, medium textured, small core.
GOLDEN ACRE ELITE
GOLDEN ACRE
Plants: Similar to COPENHAGEN MARKET. Heads: 6-6½", weigh 2½-3 lbs., interior white, tender, tightly packed, small medium core, not susceptible to premature bursting. Adapted to South particularly, does well anywhere. This is an exceptional variety of very fine quality. This line has been carefully selected for uniformly early maturity.
Plants: Medium sized, saucer shaped, short, upright leaves standing away from head, medium grayed green, short stem, rapid early grower; characterized by prominence of heads in field when seen from distance.
Heads: 6-7" in diameter, weigh 3-3½ lbs., interior white, fine grained, tender, tightly packed, not susceptible to premature bursting; small medium core.

GREEN ACRE
Plants: Same as GOLDEN ACRE, but darker green and larger leaved so that heads are not as noticeable in the field.
Heads: Same as GOLDEN ACRE, but darker green exterior and greenish white interior. Holds color better for shipping and market.
CHARLESTON WAKEFIELD
Plants: Large, long, semi-erect outer leaves, dark green, medium stem.
Heads: 6-7" broad at base, 7-8½" deep, weigh 4-5 lbs. pyriform with rounded point; interior greenish white, medium textured, fairly firm, small to medium core. Used for Southern winter shipping; good for home garden and local markets as well.
RED ACRE
Plants: Type of GOLDEN ACRE but more leafy and medium red with

Heads: Same as GOLDEN ACRE, but red.



GOLDEN ACRE

SECOND EARLY

MIDSEASON MARKET
Heads: Large, hard, round, 6-8", weigh 3-4 lbs., excellent quality. Very similar to GLORY OF ENKHUIZEN.
Plants: Small, leaves semi-erect and compact, medium dark green, short stem, suitable for close planting. Heads: 7-8" broad, 5-6" deep, weigh 3½-4½ lbs., interior white, solid, fine textured, small core, desirable second early market type.
FERRY'S ROUND DUTCH
Plants: Medium size, large, broad, semi-erect leaves, medium stem, medium green. Local market and home garden type. Heads: Round with flattened top, 7-8" broad, 6-6½" deep, weigh 5-6 lbs., interior white, medium textured, fairly solid, small to medium core.
ALL HEAD EARLY
Plants: Large spreading leaves slightly curved upward, color medium blue tinged green with moderate bloom. Heads: Large, globe, 6½-8" in diameter, weigh 5-6 lbs., hard; interior creamy white, medium grained, medium core. Desirable variety of early midseason maturity.
Plants: Medium large, broad, semi-erect leaves, compact, pale blue green, uniformly finely savoyed, short stemmed. Heads: 9-10" broad, 6-7" deep, weigh 6-7 lbs., flattened oblate, firm well folded to give solid, fine to medium textured interior which is pale green; medium sized core.
Plants: Large, broad, semi-erect leaves, dark green, coarsely savoyed medium stem. Heads: 8" broad, 6½-7" deep, weigh 5-6 lbs., almost round; interior yellow to greenish yellow, medium textured, fairly firm, medium core.

Plants: Medium sized, broad, semi-erect, compact leaves, medium gray green, short to medium stem, vigorous. Very satisfactory market and
shipping type. Heads: 10-11" broad, 6-6½" deep, weigh 9-10 lbs., flat globe shape, solid; interior creamy white, medium textured, medium core.
ALL SEASONS
Plants: Medium sized, broad, semi-erect leaves, medium blue green, medium stem. Good late summer and fall strain; good keeper. Heads: Globular to fiattened globe, 10-11" broad, 7-8" deep, weigh 8-9 lbs., solid, medium textured; interior white, good quality, medium core.
LATE OR MAIN SEASON
 SPECIAL LONG ISLAND SAVOY
Plants: Selected from MAMMOTH RED ROCK for vigor and uniformity, short stem. Heads: 7-8" broad, 7-8" deep, weigh 7-8½ lbs., globular to slightly ovate, deep blood red carried through head, medium textured, solid, small to medium core.
Plants: Large, broad, semi-spreading leaves, deep blood red or purplish red, globular to flat globe, medium stem, heavy producer. Heads: 7-8" broad, 6½-7" deep, weigh 6-7 lbs., interior red, fairly solid, coarse textured, medium core, good keeper.
PREMIUM LATE FLAT DUTCH (LATE DRUMHEAD) . 100-110 days Plants: Large, broad, spreading leaves, medium blue green, medium stem. Heavy yielding market and kraut type. Heads: 11-14" broad, 6½-7½" deep, weigh 12-15 lbs., distinctly flat; interior creamy white, very solid, medium textured, small to medium core.



PENN STATE BALLHEAD

PENN STATE BALLHEAD ALEAMERICA DISELECTIONS Silver Medal 1934

103-107 days

Plants: Medium size, medium large leaves, upright, blue green with moderate bloom.

Heads: Flattened globe, 7-8" in diameter, 6-7" deep, weigh 5-6 lbs., very hard, creamy white interior, fine grained, small to medium core, very uniform strain.

Plants: Medium small, allowing close planting, short stemmed, erect and compact, very hardy.

Heads: Spherical, 6½-7" in diameter, and weighs 6-7 lbs., very firm, keep perfectly in storage till late spring.

DANISH BALL HEAD (HOLLANDER) 105-110 days

Plants: Medium to large size, short stem, upright leaves, color blue green with heavy silvery gray bloom.

Heads: Globe to flattened globe, very hard, $7\frac{1}{2}-8\frac{1}{2}$ " in diameter, weigh 6-6½ lbs., interior white, fine grained, tightly packed, with small to medium core. Leading late variety for processing.

CABBAGE, CHINESE

Brassica pekinensis

CHIHLI (PEKIN IMPROVED)
Plants: Exceptionally sure heading, vigorous, similar to CHIHLI. Heads: 4 x 18-20", long cylindrical, firm, crisp, dark green outer leaves without a yellowish cast, fine flavor.
WONG BOK (PAO-TING)
CANTALOUPE AND MUSKMELON Cucumis melo
PINK OR ORANGE FLESHED VARIETIES
Fruits: 3½-5 x 10-20", weigh 4½-6 lbs., banana shaped, long, tapered slightly at both ends, skin is smooth, yellow when ripe with fairly thick pink flesh, well flavored. Used as late maturing variety in the South where it is not susceptible to sun scald.
Fruits: 5-6 x 7-9", weigh 6-8 lbs., thick oval shape, distinctly ribbed, coarsely netted, skin dark green becoming light yellow at maturity, flesh bright salmon pink, thick, firm. Popular local shipping melon in the Northeast. Has thicker flesh than TIP TOP.
BURRELL'S GEM (DEFENDER, ORDWAY PINK MEAT) . 90-95 days Fruits: 4-4½ x 6-6½", weigh ½-3 lbs., oval to oblong shape, distinctly ribbed, with medium netting, skin dark green remaining green at maturity, flesh rich orange, thick, sweet and spicy. Hardy variety in dry weather, but frequently develops blossom cracks in wet weather.
Fruits: Large, 6 x 7", acorn shape, tapered at stem end. Skin smooth but surface slightly roughened (ridged) and yellow when ripe; flesh is thick, buff pink, excellent quality. Preferred for local use on the Pacific Coast.

Fruits: Similar to BENDER'S SURPRISE but earlier and smaller fruited of	,
average; flavor and quality is better than BENDER'S SURPRISE: 5-6 6-7", weigh 5-6½ lbs., skin creamy green at maturity. An outstandin variety apparently well adapted to North East, not a shipping type.	X
Fruits: 5-6 x 4-5", weigh 2½-3 lbs., flattened globe shape, distinct ribbed with trace of netting, skin is bright emerald green becomin yellow green at maturity; flesh very thick, intense salmon orange, excellent quality. Suitable only for home garden and local market.	ly 1g
Fruits: 5-5½ x 6-6½", weigh 3-4 lbs., thick, rounded oval, inconspicu ously ribbed with heavy interlaced netting; skin yellow green with flesh salmon-orange, very thick and solid, good quality. One of the most widely used varieties for long distance shipping, local market of home garden.	ı- th ie
HALE'S BEST NO. 936	d
HALE'S BEST, JUMBO STRAIN (TRIUMPH) 84-88 day Fruits: 6-7 x 7-8", weigh 5-6 lbs., similar to HALE'S BEST NO. 36 but larger and slightly later strain.	
HEARTS OF GOLD (HCODOO)	d, k.
HEARTS OF GOLD, MORRILL'S LARGE STRAIN 93-97 day Fruits: 6½-7 " in diameter, weigh 4-5½ lbs., very similar to regular type of HEARTS OF GOLD, but larger, slightly later and better shipper.	ys be
Fruits: 5½ x 6½". Salmon colored, smooth texture, excellent flavor, with high sugar content. Slightly ribbed. It is mildew resistant and adapted to Imperial Valley and Phoenix sections and where mildew susceptible strains are a problem.	th
Fruits: 7 x 6", light grayish green skin, prominent ribbed with fairly heaven netting. Flesh is thick with deep orange color and sweet, tough ring. This was developed by Henry Munger at Cornell University and is Fusarium wilt resistant BENDER type melon.	vy d.



IROQUOIS

LAKE CHAMPLAIN (GOLDEN CHAMPLAIN) . . . 80-85 days

Fruits: 5-6" in diameter, weigh 3-3½ lbs., globular to slightly flattened, shallow ribbing with moderate netting, skin pale green, flesh salmonorange, medium thick, fairly sweet, juicy, well flavored. One of earliest orange fleshed varieties, suitable for home garden or local market.

MILWAUKEE MARKET 85-90 days

Fruits: 6-7 x 7-8", weigh 4½-6 lbs., oval, prominent ribbing with moderately abundant coarse netting; skin bright gray green; flesh deep salmon, solid, thick, medium textured, good flavor. Early shipping type for Northern areas.

ORANGE FLESH (PERFECTO) ALL-AMERICA A) SELECTIONS Silver Medal 1933 85-90 days

Fruits: 5-5½ x 6-6½", weigh 2½-3 lbs., thick oval to globular, no ribbing and abundant, fine-laced netting; skin dark green, flesh salmonorange, medium thick, highly flavored, firm, juicy, good quality. Popular all-purpose melon well adapted to shipping.

OSAGE (MILLER'S CREAM, EXTRA EARLY OSAGE) . . . 90-95 days

Fruits: 6-6½ x 7-8", weigh 5-6 lbs., rounded oval shape, slightly ribbed with sparse, patchy, coarse netting; skin dark green; flesh orange, thick, distinct sweet spicy flavor, fairly good quality. Home garden and local market type.

POWDERY MILDEW RESISTANT D-2	90 days
Fruits: 5½-6 x 6½-7", weigh 4-5 lbs., solid, heavily netted; s	kin yellow
green; flesh salmon colored, fine quality, thick, sweet. It is a	a fine early
large, resistant, heavy netted melon that stands shipping wel	1.

POWDERY MILDEW RESISTANT NO. 5 (IMPERIAL NO. 5) 90-95 days Fruits: Slightly ribbed, inconspicuously netted, good flavored, salmon colored flesh. Pick early slip for distant shipping. Promising shipping type, extremely resistant to mildew.

POWDERY MILDEW RESISTANT NO. 45 (HALE'S BEST NO. 45. 85-90 days IMPERIAL NO. 45)

Fruits: $5-5\frac{1}{2}$ x $6-6\frac{1}{2}$ ", weigh 3-4 lbs., similar in type and use to HALE's BEST, but is resistant to powdery mildew, flesh thick, salmon colored flesh, firm, sweet. Can be shipped in more mature stage than HALE'S BEST. Preferred over HALE'S BEST in area where powdery mildew is prevalent. Can be picked at full slip for long distance shipping. In areas of extreme mildew use No. 5.

PRIDE OF WISCONSIN (QUEEN OF COLORADO, JERSEY GOLD)

90-95 days

Fruits: $6-6\frac{1}{2} \times 6\frac{1}{2}-7\frac{1}{2}$ ", weigh $3\frac{1}{2}-4\frac{1}{2}$ lbs., thick, pointed oval, shallow but distinct ribbing with moderately sparse, very coarse netting; skin gray green, hard and tough; flesh orange, solid, thick, very sweet, good flavored. Has become well known in Eastern markets because of excellent flavor and market quality.

SCHOON'S HARD SHELL 90-95 days

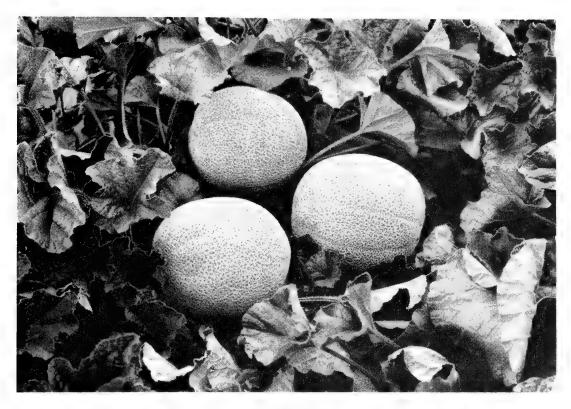
Fruits: 6-7 x 7-8", weigh 5-7 lbs., thick oval with heavy blossom scar which resists cracking, prominent ribbing with abundant coarse netting, skin gray green becoming yellow at maturity, very hard and tough, flesh very thick, deep salmon-orange, solid, well flavored, excellent quality. Superlative shipping and market melon in BENDER group. This variety remains in palatable condition for longer time than other standard varieties.

SENECA BENDER 92-94 days Fruits: $4\frac{3}{4} - 5\frac{1}{2} \times 6\frac{1}{2} - 7\frac{1}{2}$ ", weighing 5-6 lbs. Broad oval shape, coarsely netted and distinctly ribbed. Skin dark green, blanching to dull yellow at maturity. Flesh medium thick, salmon-orange, and sweet. Firm rind. A selection from BENDER'S SURPRISE, showing typical BENDER netting, ribbing and large blossom end scar. Satisfactory for nearby markets and home gardens. Vigorous and productive.

SUGAR ROCK (HONEY ROCK) ALE-AMERICA ASSELECTIONS Gold Medal 1933

82-87 days

Fruits: 5-6 x $5\frac{1}{2}$ - $6\frac{1}{2}$ ", weigh 3-4 lbs., globular to slightly oval, faint ribbing with abundant coarse netting; skin gray green becoming pale yellow at maturity, tough and hard; flesh deep salmon, medium thick, fairly solid, juicy, good quality. Very desirable home garden and local market type; not suitable for long distance shipping. Ripens between DELICIOUS and BENDER'S.



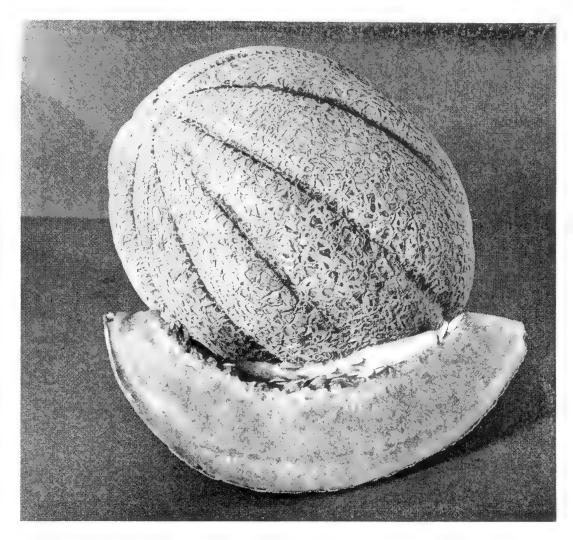
HALE'S BEST NO. 36

Fruits: 5½ x 4¾". Oval moderately, netted, moderately thick, good salmon color, with firm texture. Flavor sweet and unique. Resistance: Not entirely resistant to downy mildew. Almost entirely resistant to aphids. The vines show considerable resistance to melon worms. Result of breeding work in Texas at Winter Haven Station.

Fruits: Medium size, slightly oval, similar to POWDERY MILDEW RESISTANT NO. 45, except netting is a little rougher. Flesh is thick, salmon color, very sweet, small seed cavity. Particularly adapted for use on the Pacific Coast. Developed in Texas and carries no resistance to mildew, but is very tolerant of sulphur dusting, thus the grower can produce a clean crop without too much damage to vine.

GREEN FLESHED VARIETIES

Fruits: 4-5 x 5-6", weigh 3½-5 lbs., oval to round shape distinctly ribbed and heavily netted; skin dark green, with light green flesh; very productive, shows some disease resistance and drought tolerance.
EXTRA EARLY HACKENSACK 80-85 days Fruits: 6-7 x 5-6", weigh 3-3½ lbs., large, flattened globe shape, prominently ribbed with abundant interlaced netting; skin yellow mottled with green; flesh light green, juicy and good flavor. Home garden and local market type.
EXTRA EARLY KNIGHT (KNIGHT'S EARLY , MARYLAND , SUGAR SWEET , SWEET AIR) 84-90 days Fruits: 4-4½ x 5½-6", weigh 1½-2 lbs., oval shape, prominent ribbing with moderate netting; skin dark green, flesh light green with pink tint bordering seed cavity medium thick, very sweet, highly flavored, quite juicy, good quality. Popular market melon in Middle Atlantic States.
Fruits: 5-6 x 4-4½", weigh ½-2 lbs., distinct flat globe shape; shallow ribbing with fairly sparse netting; skin dull orange mottled with green; flesh light green, not too thick, soft, juicy, fair to good quality. Home garden and local market type.
LARGE HACKENSACK (TURK'S CAP) 85-90 days Fruits: Similar to EXTRA EARLY HACKENSACK, but later and larger fruited, being 7-8 x 5½-6" and weighing 5-6 lbs.
OHIO SUGAR (GREEN FLESHED TIP TOP) 90-95 days Fruits: Similar type to TIP TOP, but green fleshed; very large 7-8 x 8-9", weigh 6-8 lbs., thick oval to nearly globe shape, prominently ribbed with sparse netting; skin creamy yellow; flesh light green, fine textured, soft, juicy, sweet, good quality and flavor. Home garden and local market type.
ROCKY FORD (NETTED GEM, EDEN GEM, NUTMEG) . 87-92 days Fruits: 4-5 x 4½-5½", weigh 1½-2 lbs., nearly globular, very shallow ribbing with abundant finely interlaced netting; skin dark green becoming mottled bronze; flesh green with narrow golden border at seed cavity, medium thick, fairly firm, very sweet, flavorful and juicy. Widely cultivated local market and shipper type.
WINTER VARIETIES
CASABA (GOLDEN BEAUTY)



SCHOON'S HARD SHELL

Fruits: 5-5½" in diameter, weigh 3½-5 lbs., globular, uniform; skin yellowish white, smooth with sparse fine netting; flesh pale silvery green, very juicy, sweet flavored. Excellent home, local market and shipping melon, selected from a cross of HONEY DEW and TEXAS CANNON BALL.

HONEY DEW, GREEN FLESHED (ANTIBES) . . . 112-115 days

Fruits: 6-7½ x 7-8", weigh 5-6 lbs., globular to thick oval; skin smooth, hard creamy white to creamy yellow, occasional traces of netting; flesh very thick, pale emerald green, sweet, juicy, distinctly flavored. Good storage and shipping melon. Not adapted in the cooler shorter growing season of North and East.

CARDOON

Cynara cardunculus

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Perennial from GLOBE ARTICHOKE family. Grown for fleshy leaf stalks. Plants: $3\frac{1}{2}-4\frac{1}{2}$ ft. tall, grayish green, stalks almost spineless.

CARROT

Tops: 14-17" tall, heavy foliage, large collar and very strong tops. Roots: 7-7½ x 1¼-1½" square shoulder with an occasional sunken crown, long slim taper with slightly tapered tap root. Medium dark orange skin, orange cortex and light distinct core. This vigorous growing, heavy-yielding, brittle fleshed variety does well under most environmental conditions.
Tops: Identical with DANVERS HALF LONG. Roots: 7-8 x 1½-1¾", square shouldered with fewer sunken crowns. Long, slim taper with abrupt taper to tap root, medium orange skin, orange cortex and orange indistinct core. This is a longer rooted, coreless strain of DANVERS HALF LONG.
FRENCH FORCING
GREATER CHANTENAY
HUTCHINSON

winter carrots.

IMPERATOR (TENDERSWEET) ALL-AMERICA AN SELECTIONS Silver Medal 1935

77 days

Tops: 14-16" refined top, small collar and moderately strong top.

Roots: 8-9 x 1¹/₄-1¹/₂", rounded top, uniform and slightly tapering with abrupt tapering tip, dark orange skin, dark orange cortex and small dark orange core. A coreless, excellent colored, fine grained variety developed primarily for shipping trade.

Tops: 14-16". Same as regular IMPERATOR.

Roots: 9-11 x 1½-1½", Similar to regular IMPERATOR. This variety possesses all the good characters of regular IMPERATOR, differing only in length of root. Variety developed for bunching and dehydrating by growers on the Pacific Coast.

IMPROVED LONG ORANGE (ST. VALERY) . . . 85-88 days

Tops: 18-20" tall, dense foliage with medium to large collar and strong top. Roots: 9-12 x 1½-1¾" rounded shoulder with no sunken crowns, uniformly, slightly tapered through entire length. Dark orange skin, dark cortex, with distinct dark core. An old standard variety for winter storage and bunching; also used for stock feed.

MORSE'S BUNCHING ALE-AMERICA DISELECTIONS Gold Medal 1934 . 77 days Tops: 12-14", moderately dense foliage, medium to small collar, strong tops.

Roots: 7½-8½ x 1¼-1½", rounded shoulder, uniformly, slightly tapering with a definite stump tip. Skin bright orange, cortex and small core are good orange. Variety desirable for freezing and very productive in the North.



DANVERS HALF LONG

NANTES HALF LONG (HALF LONG SCARLET NANTES CORELESS) 68 days
Tops: 12-14", very refined foliage, very small collar and weak top. Roots: 6-7 x 1-1 ¹ / ₄ ", round on top, uniformly cylindrical with very little taper, and rounded base. Bright orange skin and cortex with a very small dark orange core. This variety particularly adapted to home garden and frame forcing.
★NANTES STRONG TOP
Roots: 6-7 x 1-11/4", round on top, uniformly cylindrical with no taper, round at base. Bright orange skin and cortex with very small dark orange core. This variety very similar to NANTES HALF LONG, except line has been carefully selected for ease in harvesting. This variety is recommended for canners and freezers.
OXHEART (GUERANDE)
★RED CORED CHANTENAY
Tops: 10-12", tops — dense erect foliage, large collar and strong top. Roots: 8-10 x 1½-1½" rounded shoulder, long slim taper with long tap roots. Dark orange skin, cortex and core. Similar to IMPERATOR and MORSE'S BUNCHING, with an excellent color. Particularly adapted to light sandy loams with longer growing season.
★TOUCHON
WHITE BELGIAN
YELLOW BELGIAN

CAULIFLOWER

Brassica oleracea var. botrytis

Heads: 6-7" in diameter, weigh 1½-2 lbs., deep, compact, creamy white curd, free from leaflets, excellent quality and flavor; very dependable header; uniform strain. Recommended for canning and freezing. Plants: Dwarf, compact, upright leaves, pale blue green, shorter leaved than later varieties.
★SNOWDRIFT (WHITE MOUNTAIN) 57-60 days Heads: 6½-7½" in diameter, weigh 1½-2 lbs., firm, compact, snowy white, fine textured, curb free from leaflets, good quality. Suitable for shipping and canning. Plants: Slightly larger than SNOWBALL, long, large, upright leaves, giving good coverage, medium green.
★SUPER SNOWBALL
CELERIAC
Apium graveolens var. rapaceum Also called Turnip Rooted Celery or Knob Celery
GIANT SMOOTH PRAGUE
WOODRUFF'S ACE

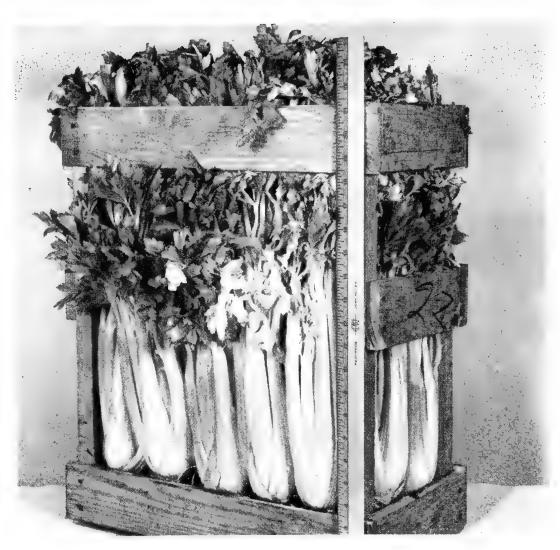
CELERY

Apium graveolens var. dulce

GREEN VARIETIES

(Most varieties are resistant to fusarium wilt.)

EASY BLANCHING (**SANFORD SUPERB**) 105-110 days Medium tall, medium green, compact and erect, easily blanched to creamy white; stalks broad, firm, crisp.



NON-BOLTING GOLDEN PLUME

Short, stocky, dark green, easily blanched to green tinted white with large golden heart; not a good shipper but noted for keeping qualities; stalks are heavy, very thick, flavorful, tender.
GIANT PASCAL
SECAUCUS GREEN

Stalks: 22-24", erect and compact with abundant medium dark green foliage. Stems 8-9" long, thick, rounded and smooth; quite numerous, forming a very heavy compact head with full long heart. Outer stems pale green, inner stems pale cream. Preferred by many growers for early fall harvest for nearby markets.
An early maturing green variety. Compact plants are shorter than EASY BLANCHING, but produce an easily blanched, heavily hearted product satisfactory for early market and short time storage for the "heart" trade.
Very popular for fall planting, matures 20-30 days earlier than GIANT PASCAL; medium tall, sturdy and compact; not adapted to long shipping because of tenderness; thick, broad, well rounded stems, very crisp and flavorful. Resistant to fusarium yellows.
WHITE PLUME
WINTER QUEEN (WINTER RELIANCE)
WOODRUFF'S BEAUTY 85-90 days Dwarf, green, very compact, heavy; similar in appearance to GOLDEN SELF BLANCHING, but green plant.
YELLOW VARIETIES
Developed by Cornell University. It is early and easy blanching like GOLDEN SELF BLANCHING. Has the quality of UTAH PASCAL. Plant is about 23" tall and 10" to joint. Highly resistant to fusarium yellows. Frequently bolts as spring crop.
GOLDEN DETROIT (DWARF GOLDEN SELF BLANCHING) An improved strain of GOLDEN YELLOW SELF BLANCHING. Taller, with somewhat longer stems and not as blocky or dumpy as the original strain. Blanches readily and stands handling and shipment very well.
GOLDEN PLUME Shorter strain now becoming obsolete, and being superseded by taller strains such as WONDERFUL.

Belongs to the group of DWARF GOLDEN strains. However, the tops are darker green and the leaves are smaller, and though the plants aren't quite as tall, the edible stalk is longer. It is recommended for early planting where bolting is likely to occur, because it will never bolt under any condition. Very stiff plant 18-20" tall, 6" to joint; short heavy hearted strain.
GOLDEN SELF BLANCHING (PARIS GOLDEN)
LONG JOINTED WONDERFUL
A yellow, self-blanching variety developed and sold by Michigan State College. Highly resistant to fusarium yellows but not to other celery diseases. It is a GOLDEN PLUME type of medium height, medium long stem and very easy blanching.
TALL FRENCH, FERN LEAF (TALL GOLDEN SELF BLANCHING) 105-110 days
Tall, very compact, medium diameter bunch, blanches readily to creamy white; stalks long, medium broad, medium thick, fair to good quality.
WONDERFUL
CHERVIL
Anthriscus cerefolium
An annual used for garnishing and seasoning; seed germinates very slowly; leaves are brilliant green, finely cut and curled, giving appearance similar to parsley; aromatic and pungent. Must be seeded as spring or fall crop, over wintering when protected, because plant does not thrive under how weather conditions.

PLAIN OR COMMON

This variety is essentially obsolete because the curled strain is more attractive.

CHICORY

Cichorium intybus

CICCORIA CATALOGNA (RADICHETTA, ASPARAGUS) 60-65 days Popular for early greens, being a rapid growing annual; plant has appearance of dandelion, with young seed stalk used in a manner similar to spear of asparagus; both young leaves and seed stalk are edible, tender and of dandelion flavor. Asparagus type recommended for spring planting.

CICCORIA CATALOGNA, QUARANTINE STRAIN

Foliage only moderately cut, thus a greater leaf area per plant. Has only 20-30 leaves per plant and grows partially prostrate. Asparagus type recommended for fall planting.

CICCORIA CATALOGNA, SAN PASQUALE STRAIN . . . 65 days Foliage deeply cut, shorter than regular CICCORIA CATALOGNA and lighter in color. 40-50 leaves per plant, erect and compact. This strain has a more attractive plant than the QUARANTINE STRAIN. Does not have the asparagus type shoot in center.

MAGDEBURG, LARGE ROOTED (COFFEE)

Roots are 12-14" long and 2" in diameter at top. Roots mature in 4 or 5 months. Dried roots are ground and used as a substitute for, or an adulterant of coffee.

CHIVES

Allium schoenoprasum

CHIVES

Small, clustering, hardy perennial belonging to onion family; produces dense clusters of fine onion leaves which are used in salads or soups and for garnishing.

COLLARD

Brassica oleracea var. acephala

Plants 18-24" tall; smooth, large, blue green, loosely folded and crumpled leaves, used for greens in South; usually showing appearance of partially formed cabbage head. Developed from cross of GEORGIA COLLARD and WAKEFIELD CABBAGE.

GEORGIA (SOUTHERN, CREOLE)
Old standard variety. Plants 24-30" tall with very broad, slightly crumpled, spreading leaves; upper leaves show incurling tendency, but not as pronounced as in CABBAGE; pale blue green to medium green foliage.
GREEN GLAZE
Plants 20" tall, medium size, blue green, loosely cup shaped leaves, occasionally forming a very loose head. The variety is distinct in having a glistening shiny appearance much in demand by the southern trade. Variety able to withstand much cold weather without damage to market quality.
LOUISIANA SWEET
Developed by Dr. Julian C. Miller of the University of Louisiana. An excellent quality collard with larger leaf area on smaller stems. The thick tender leaves have an appealing color.

The plant is low growing, broad and spreading. No true heads are formed, but the inner leaves may curl somewhat. Overwinters in Virginia with practically no injury. The leaves are very broad bladed, thick textured, slightly curled sidewise and lengthwise. Veins very prominent. The color is a brilliant, glossy green, but sometimes grayish green, with a light, waxy bloom. There is no purpling of veins or leaves. It seeds late. Preferred by canners because of the texture and lack of purpling. Bred and introduced by the Virginia Truck Experiment Station, from which the name VATES is derived.

HYBRID SWEET CORNS

Hybrid Corns presented here are the result of eighteen years of corn breeding work by our company and close cooperation with the men at the various state and federal institutions doing Sweet Corn breeding work. Without their cooperation and development work, Hybrids Sweet Corn would not be advanced to its today's position in the Sweet Corn field. To these men we express our most sincere gratitude.

Data presented are comparative and taken as an average of our many years of trials. Your maturity dates may vary for a given location, due to soil fertility, climate and growing area.

It is our sincere hope that we may add to or replace these present day hybrids of a given maturity with better adapted, higher producing, better quality, more drought tolerant, insect tolerant and disease resistant hybrids through our extensive breeding and trial program in cooperation with the state and federal institutions.

No phase is overlooked to give you as near perfect seed as is possible from the standpoint of production, which includes careful maintenance of highly productive inbred lines, proper detasseling in production fields, careful harvest, drying and milling with the best modern equipment.

SWEET CORN

YELLOW HYBRIDS

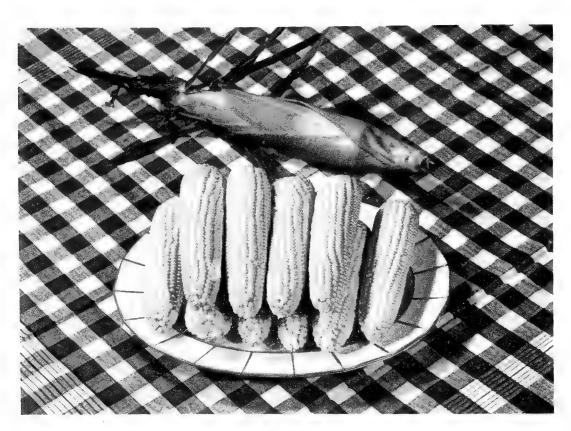
CARMELCROSS
ton of the Connecticut Agricultural Experiment Station for a large eared,
wilt resistant, second early market hybrid.
Ears: 7-7½", large, slightly tapering, 12-14 rows, straight rowed, usually
well filled tips, heavy husk; ears average 8½ oz.
Kernels: Deeper golden than MARCROSS, medium breadth, medium depth, good flavor, inclined to be starchy, good quality; becoming popular as second early market type, or an early canner in northern latitudes.
Plants: 5', medium breadth leaves, medium green, medium heavy stalk, fair roots, and few suckers. This hybrid occasionally shows smut.
EARLIGOLD, WOODRUFF'S NEW
Ears: 7-7½" long, slightly tapered, uniform, 12 rows, well filled tip and tip coverage; borne at 14".
Kernels: Bright yellow, good quality and flavor, suitable for cream style pack in northern canning areas where short season is a factor. Plants: 6' tall, medium heavy stalk, good root system, few suckers and a
fair yield of fodder. Performs well under adverse conditions and carries a high resistance to bacterial wilt.
★GOLDEN CROSS BANTAM 82 days
Developed by Mr. G. M. Smith, Purdue University Agricultural Experi-
ment Station for a canners' hybrid. It is a leading hybrid for all processes.
Ears: 7½-8", very uniform, 12-14 rows, cylindrical to tapered at tip,
straight rows, medium coverage of medium heavy husks; husked ears
average $6\frac{1}{2}$ oz.
Kernels: Rich yellow, medium breadth and medium depth to deep, excellent flavor and quality for whole kernel, whole ear or frozen pack.
Plant: 6½-7½, medium breadth leaves, medium green, moderately heavy stalk, well rooted, occasional suckers, good yield of excellent quality fodder.
GOLDEN CROSS BANTAM (RED TASSEL) 82 days
The same as GOLDEN CROSS BANTAM in all respects except the color of the
tassel.
GOLDEN EVERGREEN HYBRID 83-85 days
Developed by us to replace open pollinated BANTAM EVERGREEN.
Ears: $7\frac{1}{2}$ - $8\frac{1}{2}$ ", large cylindrical to slightly tapered, 12-16 rows, straight
rowed, well filled tips, heavy husk coverage; ears average 8½ oz.
Kernels: Dark yellow, medium breadth, deep, good flavor, good quality;
suitable for cream or whole kernel pack. Plants: 7½-8½', medium to broad leaved, dark green heavy, well rooted
stalk, very extensive root system, rarely suckered; good yield of heavy fodder.

GOLDEN SECURITY 82 days

Ears: 8-81/2", borne at 30", cylindrical, well filled, 14-16 rows, average weight .8 lb.

Kernels: Bright golden yellow, narrower than GOLDEN CROSS, deep, tender, excellent quality and flavor.

Plants: 7½-8' tall, heavy stalk and foliage. Vigorous, excellent root system, dark green, very drought resistant. This is one of our own introductions for midseason market garden and canning uses. Its yield is greater than any other hybrid in our trials, usually having two ears per stalk.

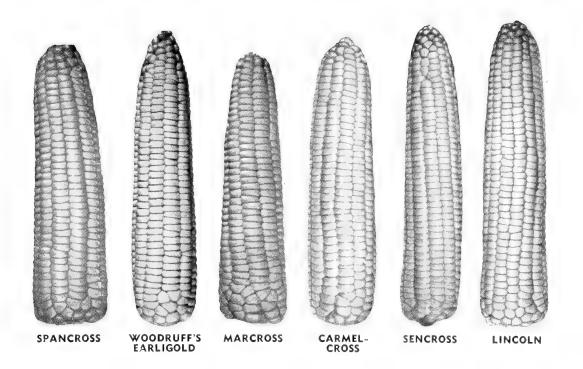


GOLDEN SUPREME

GOLD	EN :	SUPRE	ME		•		•								83 days
Ea	rs: 9	-101/2"	, 12-1	4-16	rows	(al	bout	$\frac{2}{3}$	16 r	owe	d),	wel	l fill	ed,	average
			o. Hea												
			deep,												
Pla	ants:	6' tall,	rarely	suck	cered,	dar	ker	gree	n th	an G	OLD	EN	CRO	SS E	BANTAM.
Th	e nev	vest hy	brid de	velo	ped b	y W	oodi	uff	for 1	main	ma	rket	cro	p, i	n season
	with	GOLD	EN CRO	SS B	ANTA	м b	ut la	rgei	ear	red.					

Drought resistant hybrid developed by us.

Ears: 7½-8½", cylindrical to slightly tapered, 14-18 rows, straight rowed. usually well filled tips, medium heavy husk which is long and tight and affords excellent tip protection; ears average 11 oz.



Kernels: Medium to dark yellow, medium breadth, medium depth to deep, good flavor, desirable for cream or whole kernel pack, also suitable for whole ear pack in cooler climates.

Plants: 7½-8′, narrow to medium breadth leaves, dark green, medium heavy stalk, well rooted, very leafy fodder. Entirely 2-eared and in thinner stand will develop many 3-eared plants.

Cross of Illinois inbreds 101q and 73c, developed by Dr. W. A. Huelsen of the Illinois Agricultural Experiment Station, for a heavier yielding main crop market garden strain.

Ears: 7½-8", very uniform, 12-14 rows, cylindrical to slightly tapered, straight rowed, large tight husks, ears average 8-8½ oz.

Kernels: Medium yellow, medium breadth, deep, excellent flavor and quality; excellent for whole kernel pack.

Plants: 6½-7½, medium breadth leaves, dark green, heavy stalk, better root system than GOLDEN CROSS BANTAM, rarely suckered, good yield of medium quality. Very drought tolerant.

ILLINOIS GOLDEN NO. 16 82 days

Ears: 7-10", tight husk, borne 24" from ground, 12-18 rows, average weight 0.7 lb.

Plants: 6' tall, rarely suckered.

Developed by Dr. W. A. Huelsen of the Illinois Agricultural Experiment Station for a better quality hybrid than Illinois No. 10, in the same season. It has comparable ear-worm tolerance and has proven adaptable to a wide area all over the U. S. In our Ohio trials it averaged 14,000 ears per acre.

Haber of the Iowa Agricultural Experiment Station for a larger eared main crop canners' strain.
Ears: 8-8½", very uniform, cylindrical with rounded tip, 12-14 rows, straight rowed, good coverage of moderately heavy husk, ears average 11 oz.
Kernels: Light yellow, medium breadth, medium depth to deep, near the tenderness and flavor of GOLDEN CROSS BANTAM. Plants: 6½-7½', broad leaves, dark green, heavy stalk, well rooted, very few suckers, shows more earworm and drought tolerance than GOLDEN CROSS BANTAM.
Ears: 7-8" long, 12-14-16 rows, large, cylindrical, well filled to tips, and good husk coverage, wt. 9½ oz. Kernels: Good yellow, wide, medium depth. Plants: Stalks 6½' tall, sturdy, deep green broad leaf. Developed by Dr. Singleton of the Connecticut Agricultural Experiment Station. This hybrid is similar to LINCOLN except for red tassels and red silks.
Midseason wilt resistant yellow hybrid developed by Dr. Singleton of the Connecticul Agricultural Experiment Station for market. Ears: 7½-8", cylindrical, 12-16 rows, straight rowed, well filled tips, good tip coverage; ears average 9-10 oz. Kernels: Medium yellow, narrow, shallow, fair flavor and quality. Plants: 6-6½', medium breadth leaves, medium green, well rooted, few tillers and fair fodder yield.
 MARCROSS
A Woodruff hybrid, second early season. Ears: 7-8", tight husks, cylindrical, 10-12-14 rows, average wt. 9 oz. Kernels: Bright yellow, very good quality. Plants: 6' tall, highly resistant to drought, few tillers, excellent root system. Adapted to northern half of corn growing areas. Second early market garden, or early canner.

IOANA ALEAMERICA AUSTRECTIONS Bronze Medal 1940 . .

This cross of Iowa inbred 45 and Purdue 39 was developed by Dr. E. S.

Ears: 6½-7" long, cylindrical with well filled tip, 10-12 rows, sweet, of high quality, and tender.

Kernels: Yellow, medium width and depth.

Plants: 4' tall. Developed by Connecticut Agricultural Experiment Station, this hybrid is recommended especially for early market garden use.

SENCROSS, IMPROVED

. 76 days

Developed by us for high yielding, second early canners' and market gardening hybrid.

Ears: 7-8", cylindrical to slightly tapered, 12-14 rows, straight rowed, well filled tips, heavy husk, giving very good coverage; ears average 9 oz.

Kernels: Medium yellow, medium breadth, medium depth to deep, good flavor, quality, desirable for cream style, whole kernel or frozen pack.

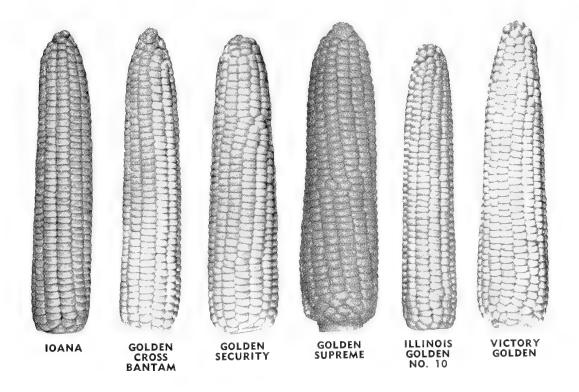
Plants: 6', medium breadth leaves, dark green, medium heavy stalk, well rooted, few suckers, excellent fodder for season.

SPANCROSS 13 x 4 ALE-AMERICA DIFFICULTY Honorable Mention 1941 66-68 days Early hybrid developed by Drs. Singleton and Jones of the Connecticut Agricultural Experiment Station for first early market.

Ears: 6½-7", medium size, slightly tapered to tapered, fairly well filled tips, 10-14 rows, straight rowed, fair husk coverage; ears average 8 oz.

Kernels: Variable yellow, mostly medium yellow, narrow to medium, medium depth, fair flavor, fair to good quality.

Plants: 4½-5′, medium breadth leaves, medium dark green, fairly well rooted, moderate suckering, small fodder yield. Needs high fertility level for best growth.



Ears: 7-8", cylindrical to tapered at tip, 10-14 rows, straight rowed, well filled tips, medium husk with good tip coverage; ears average 8 oz. Kernels: Medium yellow, medium breadth, medium depth, good flavor and quality; whole kernel appearance is very similar to GOLDEN CROSS BANTAM; used for whole kernel pack. Plants: 6½-7', medium breadth leaves, medium to dark green, medium heavy stalk, fairly well rooted, few suckers, fair amount of good quality fodder for season.
TOPCROSS MAINE BANTAM
 ★VICTORY GOLDEN
WHIPCROSS A larger eared WHIPPLE hybrid in WHIPPLE season. Ears: 7-8", slightly tapered with square tip end, very well filled tips, 14-16 rows, straight rowed, heavy coarse husk; ears average 9 oz. Kernels: Medium to dark yellow, narrow to medium breadth, medium depth to deep, fair flavor. Plants: 7-8', medium breadth leaves, medium green, heavy still stalk, rarely suckered, good fodder yield.
YELLOW OPEN POLLINATED VARIETIES
BANTAM EVERGREEN (GOLDEN EVERGREEN, EVERGREEN GOLDEN BANTAM)
BARDEN'S WONDER BANTAM

Ears: 6-7½", 10-16 rows, cylindrical to slightly tapered, straight rowed, well filled tips, well covered, more resistant to smut and diplodia than GOLDEN EARLY MARKET OF SUNSHINE; ears average 9 oz. Kerne's: Light to medium yellow, medium breadth, medium depth to deep, good flavor. Plants: 5-6', dark green, heavy stiff stalked, very few suckers.
EXTRA EARLY BANTAM
 GOLDEN BANTAM
GOLDEN EARLY MARKET (EARLY GOLDEN MARKET, GILL'S GOLDEN EARLY MARKET)
 GOLDEN GIANT
suckers.

 SPANISH GOLD
row to medium breadth shallow to deep, fair flavor, fair quality. Being pseudo-starchy this variety germinates well early in the spring for a first early crop. Plants: 4½-6′, variable height depending on fertility level, narrow leaves, very dark green, good roots, moderate suckers. WHIPPLE'S EARLY YELLOW
very dark green, good roots, moderate suckers. WHIPPLE'S EARLY YELLOW
 Ears: 6½-8", 12-16 rows, slightly tapered to tapered, usually well filled tips, mostly straight rowed, heavy long husk covering; ears average 10 oz. Kernels: Medium yellow, narrow to medium breadth and medium depth to deep; more variable kernel type than most varieties, good flavor, but variable tenderness. Plants: 5-6½', medium green, very heavy stalk, mostly stiff stalked, few suckers.
 Kernels: Medium yellow, narrow to medium breadth and medium depth to deep; more variable kernel type than most varieties, good flavor, but variable tenderness. Plants: 5-6½, medium green, very heavy stalk, mostly stiff stalked, few suckers.
suckers.
WHITE HYBRIDS
COUNTRY GENTLEMAN HYBRID, ILLINOIS 8 x 6 91 days Developed by Professor W. A. Huelsen, University of Illinois, for canners Ears: 7½-8", zigzag kernel pattern, cylindrical to slightly tapered; well filled tips, ears average 12 oz.

Ears: 6-7½", 10-14 rows, cylindrical to slightly tapered, straight rowed,

Plants: 5-51/2', medium to dark green, moderately heavy, fairly stiff

Ears: 6-7", 10-14 rows, cylindrical to slightly tapered, well filled tips,

Kernels: Medium to dark yellow, medium breadth and medium depth,

Plants: 5-6', dark green, fairly stiff stalked, will develop one or two suckers

straight rowed, fairly well covered; ears average 9½ oz.

. . 78 days

well filled tips, fairly well covered, more susceptible to fusarium wilt, smut and diplodia than EARLY YELLOW SENSATION: ears average 8½ oz. Kernels: Light to medium yellow, medium breadth and medium depth,

GOLDEN SUNSHINE

very tender and flavorful.

fairly tender, sweet, good flavored.

stalked, few suckers.

IMPROVED GOLDEN BANTAM

on fertile soils.

Kernels: Creamy or ivory white, very deep, slender kernel, very uniform type, good flavor, excellent quality; has shown high cutting percentage

over period of years. Good for whole grain pack.

Plants: 6½-7½', medium breadth leaves, medium green, medium heavy stalk, well rooted, develops only occasional suckers, chief characteristic is presence of "shepherd's crook" tassel caused by delayed extrusion of tassel from upper leaves. This trait more prevalent under drought conditions than under humid conditions.

COUNTRY GENTLEMAN HYBRID, ILLINOIS 13 . . . 94 days

Ears: 7-8" long, excellent husk coverage, average weight .68 pound.

Kernels: Deep, shoepeg type, white, first in quality for either cream style

or whole kernel pack.

Plants: 7' high, sturdy, well eared, good yielder, deep green foliage. Developed by Professor W. A. Huelsen of the University of Illinois.

COUNTRY GENTLEMAN HYBRID, ILLINOIS 14 . . . 92 days

Ears: 7-8" long, average weight .7 pound, cylindrical, slight taper. Kernels: Near the size, shape and color of the old shoepeg, but deeper.

Plants: 71/4' tall, good yield and quality.

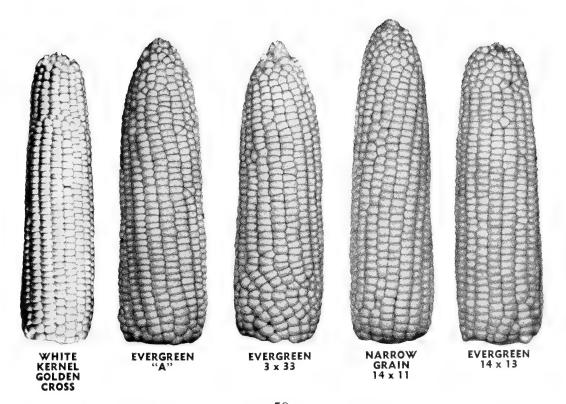
Developed by Professor W. S. Huelsen of the University of Illinois.

COUNTRY GENTLEMAN HYBRID, ILLINOIS 15 . . .

Ears: 7-7½", average weight .67 lb., cylindrical with slight taper, good husk coverage.

Kernels: Good shoepeg kernels of better than average depth.

Plants: 7' tall, medium green, better than average yield for COGENT. Developed by Professor W. S. Huelsen of the University of Illinois.



EVERGREEN HIBRID A (EARLI EVERGREEN HIBRID) . 91 days
Developed by us from midwestern material to replace open pollinated EARLY EVERGREEN.
 Ears: 8-8½", large, cylindrical, straight rowed, 16-18 rows, well filled tip, excellent husk coverage of long heavy husks; ears average 13 oz. Kernels: Snowy or chalky white, narrow, deep, uniform type, good flavor, thin hulled, good to excellent quality; high cutting percentage. Plants: 7½-8½', broad leaved, heavy stiff stalk, medium to dark green, almost suckerless, occasionally 2-eared, well rooted, heavy fodder yield.
EVERGREEN HYBRID 3 x 33
Developed by us from midwestern material for good hybrid of STOWELL'S season and type.
Ears: 8½-9", very uniform, cylindrical, 16-18-20 rows, straight rowed, well filled tips, excellent husk coverage; ears average 13 oz.
Kernels: Snowy or chalky white, medium breadth, medium deep to deep, good flavor and excellent quality, heavy yield and high cut; good for whole kernel or cream style pack.
Plants: 8½-9', medium leaves, heavy, stiff stalk, excellent rooting, dark green, many 2-eared stalks, rarely suckered; gives leafy, excellent yield of fodder.
EVERGREEN 14 x 13
Developed for canners by Professor W. A. Huelsen of the Illinois Agricultural Experiment Station.
Ears: 8-8½", large cylindrical to slightly tapered, 16-18 rows, straight rowed, well filled, good coverage; ears average 13½ oz.
Kernels: White, medium breadth, deep, good flavor and quality.
Plants: 8', narrow to medium breadth leaves, medium dark green, well rooted, single stalked, good leafy fodder.
IOGREEN 56
Ears: 8½-9", 20-22 rows, average weight .81 lb., borne about 34" above the ground, cylindrical, slight taper at tip, well filled. Kernels: Narrow, deep, tender, and white.
Plants: Stalk 8' high, very sturdy with broad, heavy dark leaf. An Evergreen Hybrid introduction developed by Dr. Habber of the Iowa Agricultural Experiment Station.
NARROW GRAIN HYBRID
Developed by us to replace open pollinated NARROW GRAIN. Ears: 8-9", large, uniform, cylindrical, 18-20 rows, straight rowed, well filled tips, good husk coverage; ears average 12½ oz.
Kernels: Creamy or ivory white, narrow, deep, good flavor and quality, high cutting per cent; excellent for whole grain pack and cream style.
Plants: 734', medium breadth leaves, heavy stalk, well rooted, medium to dark green, very few suckers, heavy yield of good quality fodder.

NARROW GRAIN 14 x 11
Developed for canners by Professor W. A. Huelsen of Illinois Agricultural
Experiment Station. Ears: 8-8 ¹ / ₄ ", large cylindrical, 16-18-20 rows, straight rowed, well filled,
good coverage, ears average 123/4 oz.
Kernels: White, narrow, very deep, of good quality.
Plants: 81/4', medium breadth leaves, dark green sturdy, well rooted stalk.
STOWELL'S TOPCROSS
Developed by us for large eared, uniform STOWELL's type. Ears: 8-9", uniform, cylindrical to slightly tapered, 16-20 rows, straight rowed, mostly well filled tips, excellent heavy husk coverage; ears
average $13\frac{1}{4}$ oz.
Kernels: Creamy white, stowell's width, deep, good flavor, and quality, heavy yield and high cut, very desirable for cream style or whole grain
packs and for marketing where large late white corns are acceptable. Plants: 8-9', medium breadth leaves, medium heavy, stiff stalk, dark green, rarely 2-eared stalks or suckers, produces good quality leafy fodder and probably heaviest fodder yield of all our hybrids.
WHITE KERNEL GOLDEN CROSS 85 days
Ears: 7½-8" long, average weight .69 lb., 14-16 rows. Kernels: Similar to GOLDEN CROSS BANTAM except that the kernels are a
creamy white. Plants: Stalks 7' tall, more vigorous than GOLDEN CROSS BANTAM with a
6" higher ear placement.
This is a Woodruff introduction, especially made for the canning trade, and has been very acceptable for early market garden white corn.
WHITE OPEN POLLINATED VARIETIES
GILL'S EARLY WHITE MARKET
Same as GOLDEN EARLY MARKET except that kernels are white and ears a little more tapered.
BLACK MEXICAN
Ears: 5½-7″, 8 rows, cylindrical, fairly well filled tips, straight rowed,
moderately heavy husk; ears average 7 oz. Kernels: Snowy white, broad, shallow to medium depth, excellent flavor,
usually excellent quality. Characterized by the blue black aleurone
usually excellent quality. Characterized by the blue black aleurone which starts to develop in milk stage from micropyle over crown and down sides giving kernels blue black or purple appearance in dry seed
usually excellent quality. Characterized by the blue black aleurone which starts to develop in milk stage from micropyle over crown and down sides giving kernels blue black or purple appearance in dry seed stage. Plants: 5-6', narrow leaves, dark green, well rooted, may be heavily
usually excellent quality. Characterized by the blue black aleurone which starts to develop in milk stage from micropyle over crown and down sides giving kernels blue black or purple appearance in dry seed stage.
usually excellent quality. Characterized by the blue black aleurone which starts to develop in milk stage from micropyle over crown and down sides giving kernels blue black or purple appearance in dry seed stage. Plants: 5-6', narrow leaves, dark green, well rooted, may be heavily suckered, thrifty, vigorous, prolific, drought and heat tolerant. COUNTRY GENTLEMAN
usually excellent quality. Characterized by the blue black aleurone which starts to develop in milk stage from micropyle over crown and down sides giving kernels blue black or purple appearance in dry seed stage. Plants: 5-6', narrow leaves, dark green, well rooted, may be heavily suckered, thrifty, vigorous, prolific, drought and heat tolerant.

cream style. Plants: 7-8', narrow leaved, usually dark green, slender stalk, fairly well rooted, very leafy fodder, usually few suckers. EARLY COLUMBIA Ears: 6-7½", medium large, slightly tapered, 8-14 rows, mostly 12-14 rows, straight rowed, fairly well filled tips, fair husk coverage; ears average 10 oz. Kernels: Creamy white, medium to broad, medium depth, good flavor, fair to good quality. Plants: $4\frac{1}{2}$ - $5\frac{1}{2}$, medium breadth leaves, medium to dark green, well rooted, few suckers, fair fodder development, shows some heat and drought tolerance. **EARLY CROSBY** 80 days Ears: 6-7", medium sized, cylindrical to slightly tapered, 8-14 rows, straight rowed, fair tips, usually protected with good husks; ears average $9\frac{1}{2}$ oz. Kernels: Snowy white, medium breadth, medium depth, uniform for variety, fair to good flavor, good quality. Plants: 4½-5′, narrow leaves, medium dark green, fair roots, susceptible to fusarium and smut when grown out of the northern corn areas, moderate to heavy suckering, fair fodder yield; stands drought better than humid weather. Ears: 6½-8½", 12-16 rows, cylindrical to slightly tapered, straight rowed, moderately filled tips, fair to good husk covering; ears average 11 oz. Kernels: Snowy or chalky white, broad, medium deep, type fairly uniform, good flavor, tender under favorable conditions of growth; used for cream style pack. Plants: 7½-9', medium to dark green, broad leaved, usually stiff stalked, occasional suckers, heavy stalk. GILL'S WHITE MARKET (EARLY WHITE MARKET) . . 67 days Ears: 6-7½", slightly tapered to tapered, 10-16 rows, straight rowed, mostly well filled tips, fair husk coverage; ears average 10 oz. Kernels: Dull white, medium breadth, shallow to medium depth, fair to good quality; used as early market or home garden corn. Plants: 4-5', medium breadth leaves, medium green, fairly well rooted. moderate suckering, fair to poor fodder yield. Ears: 8" long, large, tapered, 12-18 rows, tight fitting protruding husks. Kernels: White. Plants: 9' tall, highly resistant to ear worm. This is a southern variety.

Kernels: Creamy or ivory white, deep, slender shoepeg shaped, good flavor, usually tender, best open pollinated variety in conditions of extreme heat or drought; used mostly in whole grain pack, but also in

average 16¼ oz. Kernels: Creamy white, variable breadth, shallow to medium depth, fair flavor, variable quality from fair to excellent; used as large eared, late market corn. Plants: 8-9½, medium to broad leaves, dark green, moderately well rooted, occasional suckers, heavy yield of fodder.
Ears: 3½-4″, 8 rows, cylindrical, straight rowed, moderately well filled tips. Kernels: White, wide, shallow, excellent flavor. Plants: 3′ tall, very slender, ears 4-6″ from ground, dark green. A home garden novelty.
 NARROW GRAIN EVERGREEN
Ears: 7½-9½", 14-18 rows, cylindrical to slightly tapered ears, straight rowed, fairly well filled tips, good to excellent and heavy husk covering; ears average 16 oz. Kernels: Creamy or ivory white, medium breadth, deep to very deep, distinctive semi-pointed crown in edible stage which becomes characteristic beak in dry seed, good flavor, tender; used in cream style and whole grain pack. Plants: 8-9½', medium to broad leaved, medium to dark green, heavy stiff stalk, well rooted, few suckers, heavy yield of rather coarse fodder.
WHIPPLE'S EARLY WHITE

IMPROVED HOWLING MOB (**VANGUARD**) 82 days Ears: $6\frac{1}{2}$ -8", 12-16 rows, cylindrical to slightly tapered, mostly slightly

Kernels: Creamy white, broad, medium deep, fair flavor, usually tender. Plants: $7\frac{1}{2}-8\frac{1}{2}$, medium to dark green, broad leaved, heavy foliage,

LONG ISLAND BEAUTY (LATE MAMMOTH, MAMMOTH SUGAR)

Ears: 7½-10", large, cylindrical to slightly tapered, 10-18 rows, straight rowed, moderately well filled tips, large cobbed, heavy husked; ears

of heavy, coarse husks; ears average 11½ oz.

heavy stiff stalks, occasional suckers.

tapered, straight rowed, usually well filled tips, good husk covering

WHITE EVERGREEN

Large, late EVERGREEN type used in the Midwest; characterized by bright snowy white kernel in prime milk stage in contrast to creamy or ivory white of other EVERGREEN strains.

ROASTING EAR OR GARDEN CORN

BLAND'S	SEXTRA	EARLY							. 66-	68 days
Ears:	6-7", cyli	indrical to	sligh	ıtly	taper	ed,	10-14	rows,	straight	rowed,
us	ually well	filled tips,					_		11 .	1.

Kernels: Creamy white, medium breadth to broad, shallow to medium depth, fair flavor.

Plants: 5½-6½, medium breadth leaves, medium green, well rooted, fair fodder.

EXTRA EARLY ADAMS (EARLY BURLINGTON) . . 70-72 days Ears: 61/2-71/2", slightly tapered, 10-14 rows, straight rowed, well filled tips, heavy husk coverage.

Kernels: Snow white, medium breadth and depth, fair flavor in prime milk, fair quality.

Plants: $4\frac{1}{2} - 5\frac{1}{2}$, medium to broad leaved, medium green, stocky, well rooted with extensive root system, rarely suckered, fair fodder yield.

as extra early adams.

Kernels: Same type as EXTRA EARLY ADAMS probably averaging a little

Plants: $5\frac{1}{2}$ - $6\frac{1}{2}$, otherwise same as EXTRA EARLY ADAMS.

SILVERMINE

fairly good husk coverage.

Kernels: Snowy white, medium breadth, medium depth to deep, fair

Plants: 8-9', medium to broad leaves, dark green, well rooted, rarely suckered; good at high altitudes and thrifty on low fertility levels, shows some drought tolerance.

TRUCKER'S FAVORITE (NORFOLK) 82-85 days

Ears: 8-9½", mostly cylindrical, 10-16 rows, straight rowed, usually well filled tips, good husk coverage.

Kernels: Ivory white, medium breadth, medium depth to deep, good flavor; one of the leading roasting ear varieties.

Plants: 8-9', many broad leaved, dark green, usually well rooted, occasionally suckered, vigorous, thrifty.

TRUCKER'S HYBRID A .

Ears: 9½-10", cylindrical, well filled, 12-14-16 row, with very good husk coverage.

Kernels: Medium width, pearly white, in general very similar to TRUCKER'S FAVORITE since inbred lines are of this origin. Good for grain production as well as roasting ears.

Plants: 7½-8', broad, very dark green leaves, excellent root system and few suckers.

POP CORN

GOLDEN HULLESS . .

GOLDEN HULLESS 80-85 days Yellow kernelled strain of JAPANESE HULLESS.
JAPANESE HULLESS (AUSTRALIAN HULLESS) 80-85 days White, pointed, fine kernelled; short chunky ears often times "bear clawed" or fasciated at tip, usually 18 or more rows of kernels, many times broken rowed; highest popping volume of any variety giving very sweet and tender popped kernels.
QUEEN'S GOLDEN (GOLDEN QUEEN)
SOUTH AMERICAN (GIANT YELLOW, GOLDEN MUSHROOM, SOUTH AMERICAN MUSHROOM) 95-100 days This variety of thick hulled flint corn from South America is at present the most popular variety because of heavy yield, wide adaptation and giant sized popped kernels. Dark yellow, pearl kernelled, long slender, large, straight rowed ears with 14-18 rows. Large, vigorous, dark green plant; fair to good popper.
TOM THUMB
WHITE RICE
CORN SALAD Valerianella olitoria
Large, rounded thick leaves of silvery green color, forming rosette growth; used as substitute for lettuce in salads or may be cooked like spinach.
CRESS
CURLED (PEPPER GRASS) Lepidium sativum
TRUE WATER Roripa naturtium aquatica
UPLAND (SPRING , BROAD LEAVED) Barbarea verna 45-50 days Dwarf plant producing small, notched, oval shaped leaves about 2" long. Very mild flavor. Used in salads.

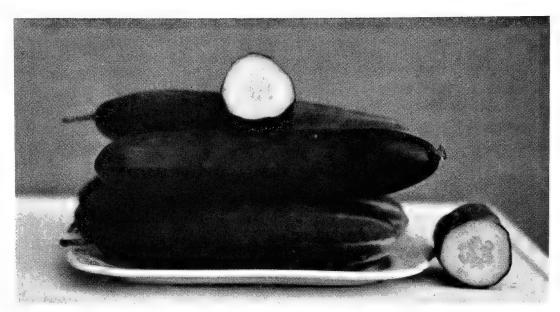
CUCUMBER

Cucumis sativus

BLACK SPINED VARIETIES

Fruits: 2-2½ x 6-7" when mature for seed; pickles are medium green slightly tapered. Not as uniform a crop as NATIONAL PICKLING.
CHICAGO PICKLING (WESTERFIELD)
Fruits: 2-2½ x 6-7" when mature for seed. Pickles are dark green, cylindrical, blocky ends. Very vigorous and high yielding. Exceptionally popular with pickle packers because the growers like the yield.
Fruits: $2\frac{1}{2}$ - $2\frac{3}{4}$ x 5- $5\frac{3}{4}$ " when mature for seed; pickles are medium green cylindrical, square at both ends; produces uniform set early and is popular for early slicing as well as for pickling.
Fruits: 2½-2¾ x 10-12", long, cylindrical, rounded stem end and abruptly tapered tip, cross section varies from circular to triangular; medium dark green with sparse striping at tip; thick, firm, crisp, flesh with small to medium seed cavity.
JAPANESE CLIMBING
JERSEY PICKLING
Fruits: 2-2½ x 3-3½", triangular to quadrangular with square ends, distinctive bright yellow color all during development of fruit, large seed cavity, flesh not too thick. Considered very good for slicing and salads Also used for pickles.
Fruits: 2-2½ x 6-7" when mature for seed; pickles are light green, in clined to be pointed at both ends. Blocky in middle tapering to both ends. Similar in quality to BOSTON PICKLING. High quality fruit, and very productive vine. An attempt to combine pickling qualities with slicing qualities. Scab-resistant.

Fruits: 2-2½ x 6½" when mature for seed; pickles are dark green, cylindrical, blocky ends which are retained through all stages of growth; similar in type to SNOW'S PICKLING, but a more symmetrical, uniform strain, making best of all-around pickles. This variety was originally developed by the National Pickle Packers' Ass'n.
SNOW'S PERFECTED PICKLING
WHITE WONDER
WHITE SPINED VARIETIES
Fruits: 2-2½ x 8½-10", slight taper at both ends, very dark green with indistinct starring at blossom ends, slender, cylindrical, almost round in cross section, small seed cavity, holds color exceptionally well.
Fruits: 2½-2¾ x 9-11″, rounded at ends, dark green with trace of light green around blossom scar, almost round in cross section; very small seed cavity, firm, crisp flesh; holds color making this a remarkable marketing and shipping strain.
Fruits: 2-2½ x 14-20", long slender shape with long taper at stem end and rounded at blossom end, round in cross section, apple green or medium green, small to medium seed cavity. Chief value of this variety is its high resistance to mosaic which almost amounts to immunity. We grow our own strain of this and are continually selecting for choice types and productiveness and checking for mosaic resistance.
Fruits: 2-2½ x 8½-10″, slight taper at both ends, very dark green with indistinct starring at blossom ends, slender, cylindrical, almost round in cross section, small seed cavity, holds color exceptionally well.
Fruits: 2-2½ x 9-9½" long, blunt-ended, cylindrical. Uniform color and texture. Smooth, crisp, with small seed cavity. It is distinguished by a very dark green skin. Well adapted for fresh market and shipping.
DAVIS PERFECT



WOODRUFF'S ACE

- Fruits: $2\frac{1}{2}$ - $2\frac{3}{4}$ x 7-8" when mature for seed; cylindrical, with short, rather abrupt taper at both ends, medium dark green, productive and fairly uniform setting; color does not hold well. Used by few for pickles, but mainly used for early shipper in South.
- Fruits: 2½-2¾ x 7½-8", medium long, carrying long, slight taper through entire length with rounded ends; cross section varies from circular at stem end to triangular at tip; medium green with distinct striping on tip one-third of length; medium to large cavity with thin to medium flesh; good flavor and quality. One of the oldest popular strains because of earliness and productivity.
- Fruits: $2\frac{1}{2}$ -3 x 7-8", cylindrical with square to rounded ends, variable circular to triangular cross section, very dark green with light green stripes at tip; medium seed cavity and medium thick flesh; good quality. Used for shipper in some sections.
- Fruits: 2½-2¾ x 12-16″, long, cylindrical with round ends, very dark green and color held well during shipment, circular cross section, moderately thick, good quality flesh with small seed cavity. Very good shipper.
- **MARKETER** ALL-AMERICA STELECTIONS Bronze Medal 1943. 65 days Fruits: 2½ x 7½-8″, dark green, slightly tapered ends. An early cucumber with long bearing season, well adapted to fresh marketing.
- Fruits: 2-2½ x 8-9", similar to CUBIT though slightly more pointed at the ends. Attractive dark green with indistinct striping at blossom end, small seed cavity, good flavor and flesh color. Fairly resistant to downy mildew.

PUERTO RICO NO. 39
Fruits: 7½-8" long, very smooth, dark green and lustrous, cylindrical. No "star" or stripes, flesh has slight greenish tinge. It is resistant to mildew and will often produce fruit in cool wet weather when other varieties fail.
STAYS GREEN (ALWAYS GREEN, BLACK DIAMOND, KIRBY, IT
STAYS GREEN)
Fruits: 23/8-23/4 x 7-8", very dark green, with few thin stripes at tip, cylindrical, with nearly square ends, very fleshy and good quality; retains color well.
STAYS GREEN, LONG STRAIN
Fruits: This is long fruited, darker green selection from standard STAYS GREEN, having fruits 2-2½ x 8-9" and practically no light color at tip.
STRAIGHT EIGHT ALL-AMERICA MITSELECTIONS Gold Medal 1935 64-68 days
Fruits: 2-2½ x 7½-8½", cylindrical, uniform, rounded blunt ends, circular cross section, dark green over entire surface, small seed cavity and medium thick to thick flesh; good quality and attractive. Early and highly productive.
WEST INDIA (BURR GHERKIN, PRICKLY) Cucumis anguria 59-62 days
Fruits: 1-1½ x 1½-2" when mature; excellent pickles when used very
young; mature fruits are thin fleshed and filled with seed; young
pickles are pale to medium green, small, oval, very heavily spined and
used for melon pickles.

WOODRUFF'S HYBRID (CLARK'S SPECIAL, EARLY FORTUNE)

60-64 days

Fruits: 2½-2¾ x 8-10″, cylindrical with rounded ends, almost round in cross section, small seed cavity, medium dark green, thin light green stripes at blossom end; tender and crisp, superior quality.

DANDELION

Taraxacum officinale

ARLINGTON THICK LEAVED

Plants: Semi-upright, 14-18" in diameter, vigorous, glossy dark green, very leafy and productive.

Leaves: Large, broad, partially toothed, thick and easily blanched, giving fairly tender greens. Pink ribbed.

COMMON FRENCH

Plants: Sprawling, 15-20" in diameter, prolific, medium dark green. Leaves: Long, broad, only partially toothed, thin to medium thick.

DILL

Anethum graveolens

COMMON

Plants: 1½-2' tall, cut leaves similar to LONG ISLAND MAMMOTH. Not as vigorous or as prolific as LONG ISLAND MAMMOTH.

Seed: Same as LONG ISLAND MAMMOTH.

LONG ISLAND MAMMOTH

Plants: 2-2½' tall, extremely cut leaves, making leaves composed only of skeletal tissue.

Seed: Very flat, brown, with strong, bitter flavor; borne in umbels which branch from entire plant; used as flavoring in pickles.

EGG PLANT

Solanum melongena

BLACK BEAUTY 80-85 day
Plants: 24-30", erect, compact, large leaved; bear 4-6 fruit. Fruits: Very dark purple, globular to blunt egg shaped, smooth, glossy
fairly uniform; have good retention of color after picking.
EXTRA EARLY LONG PURPLE
Plants: 20-24", semi-erect, branching, chiefly used as early market type bear 5-7 fruits; medium sized clustered leaves.
Fruits: Dark purple to dark bluish purple, long, slender pyriform, fairl smooth, good quality.
FLORIDA HIGH BUSH
Plants: 30-40" tall, very erect, heavy stemmed, holding fruit well abov ground, long obovate leaf; bear 2-6 fruits.
Fruits: Dark purple, elongated egg shape tapering gradually to stem end smooth, moderately variable in color and size; good shipping variety
FORT MYERS MARKET
Plants: 30-36", erect, strong stemmed, fruits borne well above ground productive over long period and very vigorous, being highly resistanto disease; bear 4-6 fruits.
Fruits: Bell shaped, 5-6" by 6½-8", very deep purple. Smooth and rarely lobed.
MANATEE SPECIAL
Plants: 34-40" tall, erect, bearing fruit high; large leaves giving good protection; bear 2-4 fruits.
Fruits: Dark purple, long egg shape, smooth, fairly uniform size and color used for southern shipping.

Plants: Earliest strain; developed by Prof. J. R. Hepler of the New Hampshire Station, 12-16" tall, spreading, heavily branched, medium sized leaves; bear 5-8 fruits; very productive.

Fruits: Dark purple, blocky egg shape, smooth, glossy, uniform producer; excellent northern variety for home garden or local market.

NEW YORK SPINELESS (IMPROVED LONG PURPLE) . 85-90 days Plants: 30-36" tall, large, erect, compact, branched, large leaved, bear 4-6 fruits.

Fruits: Deep purple, broad oval to blunt egg shape, smooth, uniform, very good quality; leading home garden and market type.

ENDIVE

Cichorium endivia

FULL HEART BATAVIAN ALL-AMERICA DELECTIONS Silver Medal 1934 85-90 days Plants: Large, leaves broad, partially curled, deep compact head, blanches easily. More vigorous, earlier and more uniform strain than old BROAD LEAVED BATAVIAN. This is the escarole of commerce.

GREEN CURLED RED RIBBED (PANCALIER) 96-100 days Plants: Large, late, coarsely toothed variety similar to RUFFEC, but with midrib rose tinted and foliage darker shade of green.

RUFFEC (**GREEN CURLED WHITE RIBBED**) 94-97 days Plant: Large, spreading, dense growth of long toothed outer leaves and thick, upright full tuft of small leaves in center which can be bleached readily. Midribs are white, broad, thick, and tender.

Plant: Hardy circular plants close to a foot and a half in diameter. Requires good rich soil. The dark green curly leaves are finely cut, the rib white.

FENNEL

Foeniculum dulce

FLORENCE (ITALIAN, FINNOCHIO)

Plants: 28-30" tall; compact, flattened and folded leaf petioles form celery-like bunch above a bulb-like enlargement at base of petioles which is used like celery or for seasoning soups; sweet, anise flavored.

LARGE SWEET (See "HERBS").

HERBS

CULINARY, MEDICINAL AND AROMATIC

A—Annual B—Biennial P—Perennial

Herbs are the oldest continually grown group of cultivated plants and are again becoming popular in home gardens. The following list gives some of those which are more popular in this country and is by no means a complete list. We have drawn freely from the following reference material in compiling this group of modern herbs: Clarkson, Rosetta E., 1939, Magic Gardens, XVIII + 370 pp., Macmillan Co., New York, N. Y., and Kamm, Minnie Watson, 1938, Old Time Herbs for Modern Gardens, XI + 256 pp., Little, Brown and Co., Boston, Mass.
ANGELICA Angelica archangelica
ANISE Pimpinella anisum
BALM (LEMON BALM) Melissa officinalis
BASIL, SWEET Ocimum basilicum
BASIL, ITALIAN Ocimum crispum
BORAGE Borago officinalis
BURNET Poterium sanguisorba
CARAWAY Carum carvi

Fuzzy leaved hardy plant grows in clumps 2-3' tall; blooms with prolific clusters of small blue flowers from midsummer to frost making exceller bee plant; dried leaves used for tea; name comes from attractiveness or plants to cats.	ic 1t
CHAMOMILE, GERMAN Matricaria chamomilla	
CHAMOMILE, TRUE or ROMAN Anthemis nobilis	
CLARY Salvia sclarea	P w s;
CORIANDER Coriandrum sativum	
CUMIN Cuminum cyminum	A 1;
HOREHOUND Marrubium vulgare	P ly d
HYSSOP Hyssopus officinalis	or
LAVENDER, SPIKE Lavendula spica	1- P
LAVENDER, TRUE Lavendula vera	P ts s.
LOVAGE Levisticum officinale	P
MARJORAM, SWEET or KNOTTED Origanum marjorana	A d

MUGWORT Artemisia vulgaris
PENNYROYAL, ENGLISH Mentha pulegium
PENNYROYAL, AMERICAN Hedeoma pulegioides
PURSLANE Portulaca saxifraga
RAMPION Campanula rapunculus
ROQUETTE (ROCKET) Barbarea vulgaris
Plant 2-3', tall with dark, very glossy green foliage and tiny light blue flowers; spicy nutmeg aroma and warm balsam taste; leaves used as seasoning in meats and soups and the extracted oils of the blossoms are used in toilet waters.
RUE Ruta graveolus
RUSSIAN TARRAGON Artemisia sacrorum
SAFFRON, AMERICAN (SAFFLOWER) Carthamus tinctorius A Plants: 1½-3′ tall, erect, branched, woody stemmed, profusely flowering with orange yellow thistle-like blossoms which are used for silk dyes, cosmetics, and food coloring; oil pressed from seed used like olive oil; leaves used for flavoring.
SAGE, BROAD LEAF Salvia officinalis

Plants 15-20" tall spread salads, sauces and juleps.	I rapidly by rhizomes; tips of branches used in
Hardy plants 10-18" tall, soms, decorative border	NENKRAUT) Satureia hortensis A bushy, small leaved, tiny purple and white blosplant; entire plant aromatic and when dried is ngs, soups, salads, and teas.
in salads and teas; seed us	am vulgare
Shade lover about 8" tall	LDMEISTER) Asperula odorata P , sometimes used for carpeting shady spots; used as sweet scented, star-like leaves.
Long narrow leaves with	anise taste are used in salads or meats and for not grow from seed. See also RUSSIAN TARRAGON.
Hardy plants 10-12" tal	TER BROAD LEAVED) Thymus vulgaris . P l, made decorative perennial border with small a seasoning and flavoring omelets, soups, salads, as.
	AON, NARROW LEAVED) Thymus vulgaris P E but with narrow leaved, gray green foliage and
WINTER SAVORY Satureion Similar to SUMMER SAVO for seasonings.	a montana
Hardy plants producing b	pranching growth 3-4' tall in second year, fragrant bly bitter flavor; used in medicines and liquors.
Ридов	KALE ica oleracea var. acephala
Brass	ica oieracea vai. acephaia
Very hardy; plants 12-14 set; leaves are heavily cu	BLUE CURLED SCOTCH) 55-60 days 4" high and 20-28" spread; compact, thick leaf urled, plume-like, blue green, thick and of good hardy variety used in late fall and early spring for

SPEARMINT (OLD FASHIONED MINT) Mentha viridis P

DWARF GREEN CURLED SCOTCH (NORFOLK, DARK GREEN MOSS CURLED)
may fade on exposure to cold weather. Equally productive with BLUE SCOTCH where cold hardiness is not a factor.
DWARF SIBERIAN (PHILADELPHIA DWARF GERMAN, GERMAN SPROUTS)
EARLY SPROUTS DWARF SIBERIAN type selected for rapid early spring growth to hit the early market with good quality greens.
DWARF SIBERIAN type selected for heavy yield and excellent delayed bolting. This variety extends the market season about 3 weeks.
TALL SCOTCH
KOHL RABI Brassica caulorapa
PURPLE VIENNA, EARLY
WHITE VIENNA, EARLY
LEEK Allium porrum
AMERICAN FLAG (LONDON FLAG)
BLUE LEAF Similar to AMERICAN FLAG but leaves broader at base, deeper bluish green. Stems 1½-1¾ thick, slightly bulbous at base with blanch of 6-8″.

Very thick, shorter stemmed strain, having deep blue green, more erect leaves, productive type and also more hardy at low temperature, stems 2-2½" thick and 5½-7½" long.
MUSSELBURG (GIANT MUSSELBURG) 145-160 days Long, thick, white stemmed with drooping, bright, medium green leaves; similar to AMERICAN FLAG, but longer stemmed. Stems 1-1½" thick and 9-10" long.
LETTUCE Lactuca sativa var. capitata
w.s indicates "white seeded." b.s. indicates "black seeded."
BUTTER HEADING VARIETIES
BIBB (CHILDS HALF CENTURY) b.s
BIG BOSTON (TROCADERO) w.s
BLACK SEEDED BIG BOSTON b.s
CALIFORNIA CREAM BUTTER b.s
CRISP AS ICE b.s
MAY KING w.s

MIGNONETTE b.s
Heads: Medium small, compact, hard, globular; outer leaves brownish with bronze cast, much crumpled and frilled; interior good quality, almost white. Primarily a home garden variety.
OAK LEAF (DEER TONGUE) w.s 40-43 days
Heads: Indefinite head, cabbage butter type, light green, medium size, leaves deeply lobed like large oak leaves, tender, resistant to heat. It is an old variety with returning popularity.
TENNISBALL BLACK SEEDED (ALL YEAR ROUND, SALAMANDER)
b.s
Heads: Medium size, round and solid; outer leaves medium green, crumpled without bronzing; interior crisp, creamy color, sweet flavor. Dependable header and popular.



WHITE BOSTON

WAYAHEAD w.s
WHITE BOSTON (UNRIVALLED) w.s

CRISP or CABBAGE HEADING VARIETIES

GREAT LAKES w.s. ALL-AMERICA WISELECTIONS Bronze Medal 1944. 82 days Heads: Large, vigorous, solid dark green, glossy and well folded, ribs rounded and medium large.

It was developed by Michigan State College and the U.S.D.A., and is slow bolting and resistant to tip burn. Profitably grown in areas where conditions are unfavorable for other heading lettuce.

- Heads: Large, broad, well folded, firm oblate to globular; outer leaves light green with wavy bronzed edges, crumpled; interior crisp, very sweet, green-tinged white. Choice home garden and local market strain showing some heat tolerance.
- IMPERIAL NO. 44 (NEW YORK NO. 44) w.s. . . 80-83 days Heads: Medium large, hard, well formed, globular; outer leaves medium green, tightly folded, crumpled, very large; interior good quality, very crisp, white. Valuable in South and East because of heat tolerance and resistance to tip-burn; also good header on muck and peat.
- Heads: Sure heading both in summer and early fall. Crisp and good quality, resistant to tip burn.



PREMIER GREAT LAKES

Heads: Medium large, firm, round, rather exposed, slightly crumpled outer leaves large, spreading, medium light green; interior crisp, translucent white, tender; resistant to brown blight but fairly susceptible tip-burn, dependable header. Good shipper. West Coast counterpart of IMPERIAL NO. 44.	d; s- to
Heads: Large, solid, ribby, dark green, resists tip burn. Produces har heads during periods of high temperature. Developed by Cornell Un versity and the U.S.D.A.	d
Heads: Medium large, solid, crisp, dark green, similar to NEW YORK NO. 1 though heads are more conical in shape, and slightly earlier. It resistant to tip burn.	2
Heads: Very large, well folded, firm, mostly globular; outer leaves large coarse, spreading, silvery green, only slightly crumpled; interior crispiuicy, white. Developed as large heading strain from IMPERIAL NO. 152 and has same habit of growth, disease resistance and shipping ability.	e, p,
Heads: Medium large, solid, round to oval, well covered, attractive crumpled; outer leaves large, thick, fairly smooth, pale to medium green; interior tender, crisp, green tinted white; widest adaptation of IMPERIAL strains, being more tip burn resistant and dependable header; resistant to brown blight. Valuable home garden, local market and shipping strain.	e, m of le
IMPERIAL NO. 850 w.s 84-87 day Heads: Very similar to IMPERIAL NO. 847, to which it is related; coul be called the white seeded counterpart of IMPERIAL NO. 847; may be more resistant to tip burn.	d
NEW YORK (WONDERFUL, LOS ANGELES) w.s 80-83 day Heads: Large, firm, oblate to round, tightly folded; outer leaves mediun yellow green to medium green, large, broad, semi-spreading, edge curled and notched; interior crisp, well blanched to creamy yellow sweet. Forerunner of the shipping strains of NEW YORK and IMPERIA type.	m es v,
NEW YORK NO. 12 (NO. 12 EARLY MOUNTAIN ICEBERG) $_{ m W.}$ $7881~{ m day}$	
Heads: Early, sure heading, medium large, compact, oblate to nearly round, uniform, well covered, but leaves not as long as IMPERIA strains; outer leaves medium size, medium green, slightly crumpled semi-erect; interior crisp, white, thin leaved and tender; tolerant theat. Local market strain.	ly L d,
80	



WOODRUFF'S A-36

PENNLAKE w.s. ALI-AMERICA MYSELECTIONS Bronze Medal 1948 82 days
Heads: 5 x 5", globe shape, solid, crisp, some tip burn, very little slime Slow bolting, dark green, uniform. Developed by Dr. M. T. Lewis, Penn. State College, State College Pennsylvania.
PREMIER GREAT LAKES w.s. ALE-AMERICA SELECTIONS Bronze Meda 1948
PROGRESS (USDA 2428) w.s 80 days
Heads: Early, dark green, thick leaved, heavily savoyed, tip burn resis tant, crisp, good flavor, high quality.
ROHCO w.s
Heads: 6½ x 5" deep, oblate, very dark green exterior, creamy white in side. Solid with small core. Large semi-spreading plant with excellen covers to give adequate protection from sun-scald. Eastern trials in dicate this variety can be profitably handled as a very long standing late maturing variety for early summer market.

Plant: Medium to large diameter, large frame, short stem. Wrapper leaves protect the head from the sun. Foliage very dark green. Leaf size is large, with finely divided wavy edge and an exceedingly refined blister, lacking the coarseness of Great Lakes, Imperial 44 and 456. Heads: 6½" wide x 6" deep. Outer head leaves are firmly attached in a way that reduces wrapper loss when cutting and trimming. Head is very solid, interior well blanched, medium size core. Good long distance shipper.
Tolerant of hot sun and showed no tipburn at Milford. Holds up well under wet weather conditions and is at least tolerant of bottom rot or leaf drop. Heads remain marketable long and do not burst nor develop brown midribnecrosis as does Great Lakes under adverse conditions. A field can be cut clean in two cuttings. The variety has a vigor that is lacking in many of the modern, closely inbred strains.
Loose Leaved Varieties Lactuca sativa var. crispa
BLACK SEED SIMPSON b.s
CHICKEN w.s. Plants: Tall, leafy, prolific and hardy type, used for rabbit and poultry feed; dark green and continuous leaf producer, even while flowering.
GRAND RAPIDS b.s
GRAND RAPIDS U.S. NO. 1 b.s
PRIZEHEAD (BRONZEHEAD) w.s
SLOBOLT b.s

Plants: Highly refined GRAND RAPIDS type plant, but smaller and longer standing under midsummer conditions. Our experience shows that U. S. NO. 1 has given better marketable lettuce in most cases.

Plants: Early, large, compact, light green, with leaves forming tight bunch in center of rosette, leaves large, frilled and crumpled. Standard home garden variety.

ROMAINE or COS VARIETIES



PART OF OUR LETTUCE TRIALS AT MILFORD.

MUSKMELON

see under CANTALOUPE and MUSKMELON

MUSTARD

Brassica juncea

CHINESE SMOOTH (ELEPHANT'S EAR, LARGE SMOOTH LEAF)

Plants: 18-24" in diameter, spreading, medium bolter, productive. Leaves: Very large, broad oval, slightly puckered with scattered notching on margin, thin to medium thick, fairly tender, mild flavor, bright, medium green.
FLORIDA BROAD LEAF
FORDHOOK FANCY (OSTRICH PLUME) 60-70 days Plants: 15-18" in diameter, erect, compact, very slow bolting, bright, pale green, productive, resembles BLOOMSDALE LONG STANDING Spinach in plant habit. Leaves: Deeply fringed and ruffled edges, heavily curled, long obovate when flattened, medium thick, tender, makes good quality greens and attractive salads, mild flavor.
Gold Medal 1935
TENDERGREEN (MUSTARD SPINACH, KOMATSUMA) B. perviridis 45-55 days
Plants: 16-22" in diameter, semi-erect, rapid growing, glossy dark green,

WHITE LONDON (YELLOW, WHITE ENGLISH) Brassica alba

spreading, heat and drought resistant, very slow bolting.

Plants: Quick growing tall plant which bolts early, has medium sized, dark green, pungent leaves, which may be used for salads when young. Grown chiefly for seeds, which are ground for table mustard.

Leaves: Large, spatulate, entire, partially dentate and notched, smooth

surface, slender creamy white rib prominent, very mild flavored, supposed to have a "creamy mustard" flavor, medium thick and tender.

OKRA or GUMBO

Hibiscus esculentus

CLEMSON SPINELESS ALEAMERICA SELECTIONS Silver Medal 1939 50-55 days

Pods: 7-9 x 1½", rich green, straight, ridged, tapered at tip, entirely spineless, good quality, very uniform.

Plants: 4-4½' tall, type same as PERKINS MAMMOTH PODDED, but not as

dense foliage, very prolific.

DWARF LONG PODDED (DWARF GREEN LONG POD) 50-55 days

Pods: 7-8 x 1-1½", dark green, slender, long, tapered at tip, fluted, good

quality.

Plants: $2\frac{1}{2}$ -3' tall, erect, branched, productive.

DWARF LONG PODDED (CAMPBELL STRAIN) . . 50-55 days

Pods: 7-8 x 11/4", very dark green, tapered at tip, only slightly ridged,

spineless, excellent quality.

Plants: 2½-3' tall, leafy, only occasionally branched; pods set early and

continue up stem for repeated pickings and very heavy yield.



DWARF LONG PODDED

LOUISIANA GREEN ALL-AMERICA D'SELECTIONS/ Honorable Mention 1941 60-65 days

Pods: Developed by Dr. J. C. Miller of Louisiana Agricultural Experiment Station; 7-8 x 5/8 -7/8", light green, long, slender, tapered throughout, slight fluting, spineless, very tender; well adapted to canning because of ability to hold green color and shape of rings when sliced.

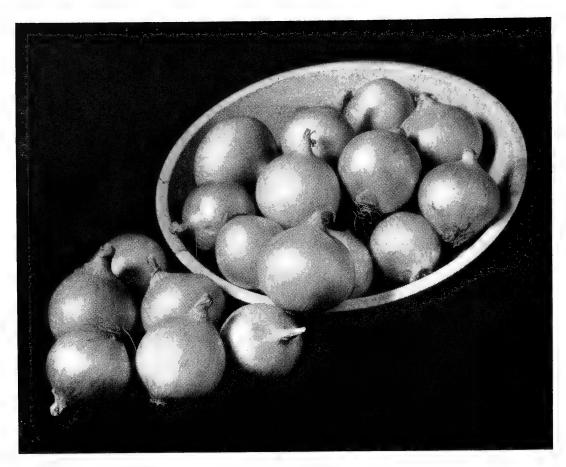
Plants: 5-5½, tall, erect, pods borne close to stalks, extremely prolific,

heavy yielder.

LOUISIANA WHITE VELVET (LADYFINGER) An improvement over the older white velvet strain, because the pods are uniformly white.
Perkins mammoth podded
WHITE VELVET
ONION
BULBING TYPES Allium cepa
YELLOW VARIETIES
AILSA CRAIG
BRIGHAM YELLOW GLOBE (BRIGHAM STRAIN, SOUTHPORT YELLOW GLOBE)
EXCEL (YELLOW BERMUDA NO. 896) ALLAMERICA SELECTIONS Honorable Mention 1948 72-78 days Bulbs: A little deeper than standard Bermudas and considerably larger. Flesh is cream colored and very mild. Exceptionally productive and uniform. Almost free from bolters and doubles. Not supposed to be a good keeper. Valuable as a shipper, particularly in Texas, where extreme uniformity results in high yield. Developed by the U.S.D.A. in cooperation with the California and Texas Experiment Stations. GOLDEN MARVEL (GOLDEN GLOBE, BOTTLE NECK) 115-120 days
Bulbs: Medium large, bottlenecked globe or thick pyriform shape; skin dark golden, thick, tough; flesh creamy yellow, crisp, firm, mild. Very

good storage or market type.

Bulbs: Medium large, globular with flat base, very hard, making outstanding shipping and storage onion; skin clear deep yellow, thick, tough; flesh pale, creamy solid, mild flavored.
PRIZETAKER (DENIA)
SAN JOAQUIN
SOUTHPORT YELLOW GLOBE
TEXAS EARLY GRANO (YELLOW)
UTAH SWEET SPANISH
VICTORY (JAPANESE, EBENEZER)
WOODRUFF'S EARLY YELLOW GLOBE 95-100 days Bulbs: Medium large, globular to slightly flattened; skin deep yellow, thick; flesh creamy to green tinged cream, tender, sweet. Sure bulbing strain excellent for early market.
YELLOW BERMUDA (WHITE BERMUDA) 90-95 days Bulbs: Medium sized, flat; skin thin, light straw; flesh creamy, very mild. Early market strain grown in Southwest.
YELLOW GLOBE DANVERS



WOODRUFF'S EARLY YELLOW GLOBE

WHITE VARIETIES

CRYSTAL WAX (BERMUDA CRYSTAL WHITE WAX) . 90-95 days Bulbs: Medium size, flat, juicy, mild, crystal white. Used for shipping, but not suitable for storage. Grown for first early shipment in South.

CRYSTAL WAX L.690

Developed and released by the U.S.D.A. and the Texas Agricultural Experiment Station, jointly, this variety has no special resistance to insects and disease, but seems to have fewer doubles and bolters than present commercial strains, is free from "off colors," and matures a few days later than EXCEL.

In 1949, at 5 locations in Texas, this variety yielded 478 50-lb. bags of onions per acre, as compared with 557 bags by EXCEL.

Bulbs: Medium large, beautiful globe shape, solid; skin silvery white, thin, delicate; flesh waxy white, fine grained, crisp, mildly pungent. Popular winter keeper.
WHITE BABOSA (WHITE GRANO)
WHITE BARLETTA
WHITE LISBON
WHITE PORTUGAL (SILVERSKIN)
WHITE QUEEN (WHITE PEARL)
WHITE SWEET SPANISH
WHITE VICTORY (WHITE JAPANESE) 100 days Bulbs: Large, semi-flat, clear white, solid fleshed, mild flavored; has stronger top than WHITE PORTUGAL.
RED VARIETIES
EARLY RED GLOBE
Bulbs: Medium size, 2-2½" in diameter, flat to medium oblate, well filled neck, skin medium thick and dull buff red; flesh is firm, strong, high percentage of dry matter, pale purplish to white. Used mostly around New Orleans. Should not be used in northern states. Adapted to short day length.

storage; now widely used for sets, with less importance for storage; excellent keeper and shipper.

SOUTHPORT RED GLOBE .

. 113-118 days

Bulbs: Medium large, deep globe, solid; skin deep burgundy, thick and tough; flesh pink tinged white, crisp, brittle, pungent. Excellent storage onion, productive.

BUNCHING TYPES

Allium fistulosum

EVERGREEN WHITE BUNCHING (HE-SHI-KO, NEBUKA)

Bulbless perennial which forms long, slender, leek-like, silvery white stalks used for bunching; onions produced in clusters of 4-9 and are twice the size of ordinary bunching onions. Advantages: grown from seed; white skin, eliminating stripping for market.

WHITE WELSH

Non-bulbing perennial producing white, slender shoots earlier in spring than set onions can be bunched; tender, mildly pungent.



EVERGREEN WHITE BUNCHING ONION.
A SEED CROP AT MILFORD.

BROWN MULTIPLIERS

Adapted to seeding in fall as over-winter crop. Multiplies over winter to produce 4-6 stalks per set for early market.

SHALLOTS Allium ascalonigum

Grown commercially in Louisiana to produce green bunch onions. The line must be blanched to produce market quality onions, and under these conditions the flavor of SHALLOTS is more delicate than that of onions.

PARSLEY

Petroselinum hortense

- Plants: Very vigorous, compact, large leafed type. Leaflets coarsely compound but nicely curled. Adapted to market garden and home use. Claimed to be more frost resistant than other varieties.
- HAMBURG PARSNIP ROOTED Petroselinum hortense var. radicosum
 85-95-days
 Foliage like parsley, but plants form edible roots resembling slender parsnips in shape and color; may be stored in winter; used for flavoring soups, like celeriac.
- MOSS CURLED (DOUBLE CURLED, TRIPLE CURLED) . 70-80 days Plants: Compact, 7-10" tall; foliage very dark green, with very finely cut and curled leaves; used for garnishing.
- PARAMOUNT ALFAMERICA DIELECTIONS Silver Medal 1936 . . . 80-90 days Plants: Very compact, 9-12" tall, foliage very dark green, very uniformly finely cut and tightly curled; most attractive strain available.

PARSNIP

Pastinaca sativa

HOLLOW CROWN (**GUERNSEY**, **IDEAL**, **STUDENT**) . 130-135 days Roots: 9-11" long, 2½-3" diameter at shoulder, 1¾" diameter at throat, creamy, crisp, brittle fleshed, hollow crown, medium collar, occasional ridges with few scattered side roots.

Tops: 18-24" tall, strong, dark green, hardy.

Tops: Much shorter than Hollow Crown; easily pulled.

Tops: 16-22" tall, strong, dark green, frost hardy. Well adapted to muck land when root develops a pure white color and does not branch.

Tops: 16-22" tall, dark green, thick, vigorous grower, very productive. WOODRUFF'S ACE has been carefully selected for uniformity of root and excellent white color.



A SECTION OF OUR PEA TRIALS AND BREEDING GROUNDS NEAR SACRAMENTO.

PEAS

Pisum sativum

SMOOTH SEEDED VARIETIES

ALASKA WILT RESISTANT
Pods: ½" wide, 2¼-3" long, straight, pale green, plump and blunt, borne
singly, mature uniformly; contain 6-8 peas.
Peas: Small, round, bluish green, usually very uniform in appearance
35% sieve 3, 90% sieve 2-4. Vines: 30-33" tall, slender, leaves widely spaced, foliage pale green on
light blue green.
Seed: Small, round, smooth, medium blue or gray green.
ALASKA H. F. 30
Similar to ALASKA W. R. except the plant has more vigor which gives a little larger berry and a little larger yield.
AMEER (BOUNTIFUL, CLAUDIT, MAMMOTH POD ALASKA) 57-60 days
Pods: 3-3½" long, slightly curved, medium green, plump, pointed, borne
singly, contain 6 to 8 peas.
Peas: Medium size, round, light green.
Vines: 30-34", fairly uniform, medium green. Seed: Medium size, round bluish green, slightly dimpled.
seed. Wediani size, found blaish green, slightly dimpled.
Pods: 2 ³ / ₄ -3" long, medium green, borne single and paired, well filled and blunt.
Peas: Light green, medium size.
Vines: 4½' tall, medium light green, vigorous, prolific. Seeds: Smooth, dimpled, cream to light green in color. Adapted to the South.
FIRST AND DEST (MODNING STAD DEDICATE EVERA FARLY)
FIRST AND BEST (MORNING STAR, PEDIGREE EXTRA EARLY) 56-59 days
Pods: 2 ¹ / ₄ -3" long, straight, light green, plump, blunt, borne singly, con-
tain 6 to 7 peas. Peas: Medium size, round, light green, fair quality.
Vines: 24-30", slender, medium green, hardy, good yielder.
Seed: Medium size, round, dimpled, creamy white to greenish white
LAXTON'S SUPERB (EARLY BIRD)
Pods: ½-5/8" wide, 3½-4" long, curved, light green, pointed and plump borne singly, uniform cropper, contain 7-9 peas.
Peas: Medium size, round, medium green, uniform in appearance. Vines: 19-23" tall, being dwarf of type, large leaved, stipulates prominent.
foliage light to medium green. Seed: Medium size, round, seed appears to be mixture of smooth and slightly wrinkled, medium blue green. Not the same as the English "Early Bird" variety.
Larry Dird variety.

MAMMOTH PODDED EXTRA EARLY

light green, round, plump, blunt, borne singly; contain 6 to 7 peas.

Peas: Large, round, bright green, fair quality.

Vines: 30-36", medium dark green, dense foliage, productive.

Seed: Large, round, dimpled, cream and green.

WHITE MARROWFAT 80-83 days

Pods: 3-3½" long, straight, pale green, blunt, borne singly, and doubly; contain 6 to 8 peas.

Peas: Large, round, very pale green, poor quality.

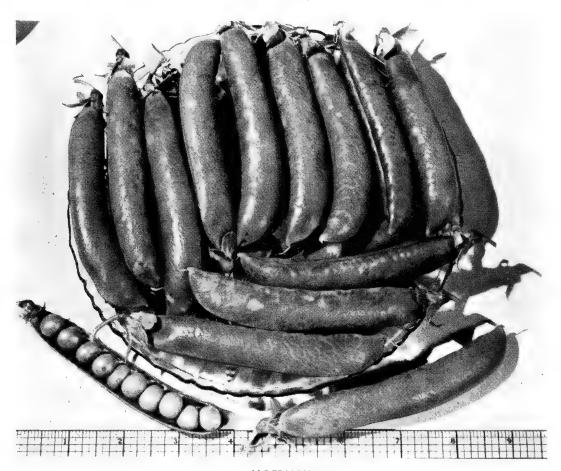
Vines: 54-60", vigorous, very productive, medium green.

Seed: Large, round, creamy buff with yellow endosperm. Resistant to fusarium wilt.

hardy for early spring planting in the South.

WRINKLED SEEDED VARIETIES

ADVANCER . 70-73 days According to the PEA TYPE BOOK written by Shoemaker and Delwiche, the taller type of ADVANCER is indistinguishable from PERFECTION.



ALDERMAN

Pods: ½-5/8" wide, 4½-5½" long, dark green, straight with rounded point, plump, well filled, borne singly, mature uniformly, contain *ALDERMAN (DARK POD TELEPHONE)

8-10 peas.

Peas: Large, round to round oval, dark green, excellent quality, tender and sweet, 60% sieve 6, 90% sieve 4-6, excellent for freezing and shipping.

Vines: 54-60" tall, dark green, medium heavy stem, coarse foliage, pro-

lific and hardy grower.

Seed: Large size, wrinkled, light green. This strain is resistant to fusarium wilt.

AMERICAN WONDER (NOTT'S EXCELSIOR)

Pods: 2½-3" long, straight, medium green, blunt, borne singly and doubly.

Seeds packed tightly, contain 6 to 7 peas.

Peas: Medium size, round compressed, green, tender, flavorful.

Vines: 13-16", dark green, stocky, productive.

Seed: Medium size, squarish, green.

CANNER KING ALL-AMERICA AUSELECTIONS Bronze Medal 1937 . . . 67-69 days Pods: 3½" long, slightly curved, borne singly and doubly, blunt, medium

green, 7-9 peas. Peas: Light green, sieve 2-7, mostly 4 to 6.

Vines: Medium green, similar to PERFECTION.

Seed: Green, medium size, wrinkled.

Resistant to fusarium wilt. Not the same as the European Canner King (Roi des Conserves).

CLIMAX . . . 66-68 days

Pods: 23/4" long, blunt, borne double, light green color. Peas: Light green, small size, 1-5 sieve, 6-7 in each pod.

Vines: 3' tall, slender medium to dark green. Similar to GREEN ADMIRAL.

Seed: Small, green.

Resistant to fusarium wilt. A second early canning variety.

COMMANDO (DELWICHE)

MMANDO (**DELWICHE**) 69 days Pods: 3½" long, slightly curved, blunt, light green, borne mostly in

Peas: Light green, medium size, similar to PERFECTION.

Vines: 30" tall, Perfection type, vigorous.

Seed: Green, wrinkled.

100% resistant to near-wilt and fusarium wilt. A canning variety. Developed by Dr. E. J. Delwiche at the University of Wisconsin and Dr. J. C. Walker.

DWARF TELEPHONE (DAISY, CARTER'S DAISY) . . 72-75 days

Pods: 4-41/2" long, slightly curved, light green, fairly plump, pointed, borne singly and doubly; contain 7 to 10 peas.

Peas: Large, nearly round, light green, sweet, excellent quality. Vines: 22-28", light green, branching vigorous, fairly productive.

Seed: Large, roundish, bluish, tinged green with small percentage of cream. This strain is wilt-resistant.

Same as DWARF TELEPHONE except has a dark pod and a darker berry.
Pods: 3/4-7/8" wide, 3/4-41/4" long, slightly curved, dark green, blunt, and plump, tapered at tip, borne singly, contain 6-8 peas. Peas: Large, round, medium green, tender; used by some for canning. Vines: 22-26" tall, dark green, heavy stem, coarse foliage. Seed: Large, wrinkled, cream and green.
EVERBEARING (BLISS EVERBEARING)
Pods: 3-3½" long, straight to curved at tip, dark green, blunt, plump, borne doubly; contain 5-7 peas.
Peas: Very large, round with flattened ends, light to medium green, good
quality and flavor. Vines: 24-30" tall, dark green, stocky, coarse branching foliage. Seed: Very large, flattened, cream and bluish green with the majority cream. Resistant to fusarium wilt.
FREEZONIAN ALL-AMERICA (M) SELECTIONS Bronze Medal 1948 63 days
Pods: 3½" long, blunt ended, dark green. Peas: Large, dark green and attractive. Vines: 30" tall, medium heavy, dark green. Seed: Large, wrinkled.
An excellent wilt resistant variety for the garden or quick freezing.
GLACIER
Pods: 3½" long, dark green, set single, plump and well filled, usually 7-8 peas per pod, blunt ended. Peas: Dark green, semi-round, fine quality. Vines: 32" tall, dark green, medium heavy.
Seed: Large, cream and green.
A THOMAS LAXTON type but resistant to fusarium wilt.
GRADUS (PROSPERITY, EARLY GRADUS) 62-64 days
Pods: 3½-4" long, straight, medium green, pointed, plump and round, borne singly; contain 6-8 peas. Peas: Large, oblong, sweet, medium green, fine flavored.
Vines: 28-33" tall, light green, moderately dense foliage, vigorous and fairly productive.
Seed: Large, elongated, flat, cream and green.
GREEN ADMIRAL
Pods: 7/16-1/2" wide, 21/2-3" long, straight, medium dark green, blunt and plump, borne singly, uniformly maturing; contain 6-8 peas. Peas: Medium size, round, medium green, good quality, used for canning.
Vines: 32-38" tall, dark green, slender stem, medium coarse foliage. Seed: Small, bright green, coarsely dimpled, roundish.

DWARF TELEPHONE DARK POD

LAXTONIAN (BLUE BANTAM, PETER PAN, HUNDREDFOLD)

60-62 days

Pods: 5/8-3/4" wide, 41/4-43/4" long, slightly curved, dark green, pointed and plump, borne singly, maturing is fairly uniform; contain 7 to 8 large peas.

Peas: Large, oval or elliptical cross section, medium to dark green, excellent quality and flavor; used for canning, freezing and market.

Vines: 18-21" tall, dark green, heavy stem, coarse foliage, with very prominent stipules.

Seed: Large, flattened, mixture of cream seed with sprinkling of apple green, yellow endosperm, large dimples in surface.

LAXTON'S PROGRESS

. 60-62 days

Pods: 5%-78" wide, 4-5" long, moderately curved, glossy dark green, pointed and fairly plump, borne singly; contain 7 to 10 large peas.

Peas: Similar in appearance to LAXTONIAN, dark green, very good quality and flavor; used for market.

Vines: 16-20" tall, very prolific, similar vine appearance to LAXTONIAN but more compact.

Seed: Similar type of mixed color to LAXTONIAN, but majority of seed is apple green in contrast to LAXTONIAN which has practically all seed cream colored.

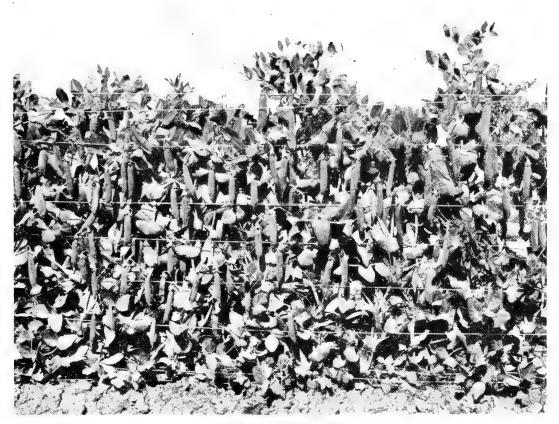


EARLY GRADUS

Pods: 2 ³ / ₄ -3" long, straight, dark green, very plump, blunt, very tightly packed, borne singly and doubly, contain 6-8 peas. Peas: Large, compressed round, dark green, exceptional quality and flavor, finest quality of all present varieties. Vines: 15-18" tall, stocky, dark green, heavy foliage, prolific. Seed: Medium sized, squarish, medium green.
Pods: ½-5%" wide, 3-3½" long, straight, light green, blunt, plump, borne singly and doubly, good cropper; contain 5-7 peas. Improved type of PRINCE OF WALES and has fewer skips in pods. Peas: Large, round, medium green, fairly uniform, 20% sieve 7-8, 70% sieve 5-8. Vines: Almost identical with PRINCE OF WALES, but more vigorous. Seed: Large, round with coarse dimples, medium green and cream. A canning variety.
 ★MIRACLE
 MORSE'S MARKET
MORSE'S NO. 9 (PROGRESS NO. 9)
MORSE'S NO. 60

Pods: 2¾", light green, borne single, straight, blunt, tightly packed. Peas: Small, sieve 2-4, light green, similar to ALASKA. Vines: 28-30" tall, slender, light green to straw color. Seed: Small and green. A canning variety.
Pods: 3¾", single and double, blunt, straight, medium green. Peas: 6 to 8 in a pod, large, green. Vines: Vigorous, medium light green, stout stem, heavy foliage. Seed: Large, green.
PERFECTED WALES
PERFECTION
PERFECTION, EARLY
PERFECTION, WILT RESISTANT
PREMIUM GEM (CANNER'S GEM, LITTLE GEM, McLEAN'S GEM) 62-65 days
 Pods: 2½-3" long, straight to slightly curved, medium green, blunt, plump, almost round, borne singly and doubly; contain 6 to 7 peas. Peas: Medium large, round, medium dark green, good quality. Vines: 20-24" tall, medium green, dense vigorous foliage, hardy, very productive.
Seed: Medium size, drum shaped, medium green with occasional cream

Pods: 3-3½" long, straight, dark green, plump, blunt, borne most doubly, well filled; contain 7 to 9 peas. Peas: Medium large, nearly globular, medium dark green, excellent for canning, giving an appreciable percentage of larger sizes. Vines: 26-32" tall, dark green, stocky, vigorous, productive. Seed: Medium size, roundish, green. A canning variety; resistant to fusarium wilt.	ly
PRINCE OF WALES	p, %
Pods: 4-4½" long, straight, dark green, pointed, plump, borne singly and doubly; contain 7 to 10 peas. Peas: Large, bright green, round, tender, excellent quality; used for land home garden, local market, and shipping. Vines: 24-28" tall, dark green, branching vigorous, productive. Seed: Large, roundish, medium green. SURPRISE SURPRISE Peas: 6-8 in a pod, small sieve, 1-5, light green. Vines: 28" high, slender, medium green. Seed: Small, green. A canning variety.	nd ate
 SURPRISE, WILT RESISTANT	ne ry ng
Vines: 20-24" tall, medium green, sturdy and productive. Seed: Large, flattened oblong, cream and light grayish green.	



WOODRUFF'S TOPPER

*THOMAS LAXTON, DARK PODDED 58-62 days
Pods: ½-5/8" wide, 3¼-3¾" long, straight, dark green, blunt and plump
borne singly; contain 6 to 8 peas.
Peas: Large, roundish, oval, medium dark green, very good quality
excellent for canning, freezing and market; 30% sieve 5, 93% sieve
3-6.
Vines: 33-38" tall, moderately heavy foliage, dark green.
Seed: Medium size, green and cream, rounded, dimpled and wrinkled
WANDO
Pods: 3½" long, dark green, borne mostly double, average 10 per vine.
Peas: Dark green predominently 3 to 5 sieve size, about 8 per pod.
Vines: 24-30" tall, dark green, first blossom at the 12th node.
Seed: Small, green.
An excellent market garden and freezing variety where small berry is desired.
WISCONSIN EARLY SWEET

Pods: ½-5/8" wide, 2½-3" long, straight, light green, blunt and plump, borne singly, matures uniformly; contain 6-7 peas. Peas: Medium size, round, light green; excellent quality with thin skin,

firm endosperm and good flavor; 40% sieve 4, 95% sieve 2-5.

Vines: 26-30" tall, medium green, foliage with slender stem, plant habit is similar to SURPRISE.

Seed: Medium size, finely wrinkled, roundish, medium blue green. A canning variety.

Pods: 4-4½ x ¾-7/8", straight, light green, blunt, flat, borne singly, good
quality. Vines: 50-57" tall, light green, coarse foliage, fairly vigorous and produc-
tive. Seed: Medium large, round, gray.
Pods: 4-5 x ¾-7/8", mostly straight, light green, flat, blunt to tapered tip, borne singly, stringless and fiberless, excellent quality, best of edible podded varieties. Vines: 50-57" tall, light green, coarse foliage, vigorous, productive. Seed: Medium large, round, smooth, creamy white with yellow endosperm.
PEPPER Capsicum frutescens
SWEET VARIETIES
Fruits: 3" in diameter, 4" long, blocky, pendant, thick flesh, mild with pungent ribs, dark green becoming scarlet. Plants: 24-28" tall, prolific, upright.
Fruits: 3½-4" in diameter, 4-4½" long, very blocky, mostly 4-lobed, upright, thickest flesh of all peppers, flavorful and very mild, glossy deep green becoming red at maturity. Plants: 22-28" tall, very erect and vigorous, prolific over an extended season.
Fruits: CALIFORNIA WONDER type, but smaller, uniform, productive. Plants: Small CALIFORNIA WONDER type, earlier maturing, suitable for more northern areas. Is rapidly replacing CALIFORNIA WONDER in many areas where environment is not conducive to good yield on CALIFORNIA WONDER.
Fruits: 4-4½" diameter, 4½-5" long, pendant, square, blocky, crumpled ends; flesh medium thick, dark green, becoming bright scarlet red. Plants: 20-28" tall, vigorous, leafy.
FLORIDA GIANT

Fruits: 3-3½" diameter at shoulder, 4-4½" long, pendant, tapered, smooth; short-fruited RUBY KING in appearance, mostly 3 lobed; flesh medium thick, sweet, tender, bright green becoming golden yellow when mature.

Plants: 22-26" tall, semi-spreading, fairly vigorous.

deep green, scarlet when ripe.

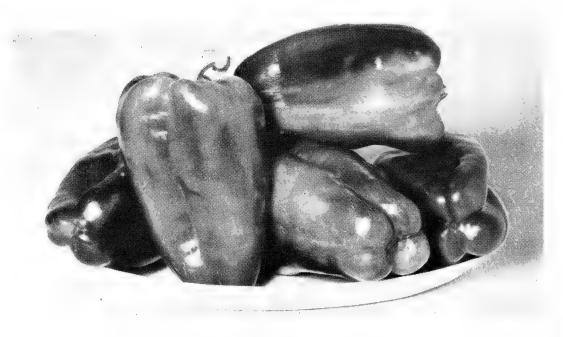
Plants: Uniform, dwarf, and compact, upright, vigorous. A medium thin fleshed variety of value for extreme earliness.

Plants: 18-22" tall, semi-spreading, very prolific, large fruited early matur-

ing, marketing or home garden variety.

Fruits: Of the RUBY KING type, 3 and 4 lobed. $4\frac{1}{2}$ -5" long, $3\frac{1}{2}$ -4" wide at stem end. 45 fruits will fill a bushel. Thick walls. Has the best crimson red color we have ever seen. Excellent flesh quality and flavor.

Plant: Compact, heavy foliage. Out-yields RUBY KING. Has the quality of bearing fruits continuously under any environmental condition, over a very long season, and the crown set does not inhibit subsequent fruits. This is not recommended for the farther north states such as Michigan and Minnesota. Earliest of large fruited peppers.



ILLINOIS F-5

Fruits: Early RUBY KING strain, developed for the North; very similar to RUBY KING but smaller fruited and not as pinched and tapered. Plants: 22-26" tall, erect, very prolific, hardy and vigorous.
Fruits: Shaped like a BULLNOSE pepper, but a little wider at the shoulder. About ¾ the size of CALWONDER, the largest sweet yellow pepper. Thick, bright yellow flesh. Skin golden yellow. Plants: Similar to CALIFORNIA WONDER.
NEAPOLITAN
OAKVIEW WONDER
OSHKOSH
Fruits: Bell type, thick walls, sweet, medium in size, pendant, three lobed. Easy to pick because of brittle pedicle. Plants: Medium sized, wide leaves, similar to CALWONDER but more fully branched. One of earliest types. In HARRIS EARLIEST season but has very good flesh thickness.
PIMIENTO (PERFECTION)
Fruits: 2½-3" diameter at shoulder, 4½-5" long, pendant, tapered to square end, mostly 3-loculed, smooth with crumpled tips; flesh medium thick to thick, mild and sweet, dark green becoming glossy dark red. Plants: 24-30" tall, vigorous, upright, leafy, productive.
SWEET BANANA Bronze Medal 1941 . 60-65 days Fruits: 7" long, 1½" wide, CAYENNE shape, sweet, medium thick wall, light yellow turning to bright red at maturity. Plants: Upright, about 22" tall, prolific, dark green, large leaves.

SWEET CHEESE (TOMATO, SQUASH, SUNNYBROOK) . 75-80 days
Fruits: 2½-3" diameter, 1-1¾" long, upright, oblate with square shoulder mostly smooth but occasional ridging; flesh medium thick to thick bright green becoming red, sweet, juicy. Home garden novelty, al though often very prolific.
Plants: 23-28" tall, erect, usually productive, branching.
Fruits: 4-4½" in length, 3½" in diameter, 4-lobes, glossy green turning to an attractive red, thick walled, tapering slightly. Plants: Upright, vigorous. Well adapted to northern climates where i gives an early, heavy yield. This strain has been selected for Northern Central States.
Fruits: 2-2½" diameter, 5-6" long, mostly pendant, rounded taper to tips, tips mostly square but occasionally pointed; mostly 3-loculed with few 2-loculed; flesh thick to very thick, extremely sweet and juicy medium dark green becoming bright red; very heavy fruits. Plants: 20-26" tall, heavy and stocky, semi-spreading, very prolific. Earliest high yielding variety extant; developed by L. C. Curtis of Connecticut Station. Popular home garden and local market type.
WORLDBEATER (RUBY GIANT)
WORLDBEATER BLIGHT-RESISTANT
HOT OR PUNGENT VARIETIES
Fruits: 1-1½" diameter at shoulder, tapering to point, 6-8" long, nearly straight, pendant, flesh thicker than other "hot" varieties, deep green changing to bright scarlet when mature. Piants: 20-24" tall, bushy, vigorous, very prolific, leafy.
HUNGARIAN YELLOW WAX

Fruits: Globular to flattened globe shaped, about 1" in diameter, pendant, smooth surface, solid, very pungent, glossy dark green changing to bright scarlet when mature. Plants: 26-29" tall, erect, bushy, medium coarse foliage, very prolific.
Fruits: 1-1½" diameter at shoulder, 6-8" long, inclined to be smooth and curved; thicker flesh than LONG NARROW CAYENNE, twice as much flesh, not quite as pungent. Plants: 24-30" tall, erect, leaves are longer and plant more open than LONG NARROW CAYENNE.
Fruits: ½-¾" diameter at shoulder, 4-4½" long, very slim, tapering, characterized by washboard corrugations below shoulder when mature, pendant, very pungent; dark green changing to bright dark red when mature. Plants: 24-30" tall, very erect with bushy top, very prolific.
RED CHERRY
Fruits: 3/8-1/2" diameter, 2-21/2" long, smooth, cone shaped, thin fleshed, one of hottest peppers for pickles, upright, light or yellowish green becoming dark red when mature. Plants: 16-20" tall, low spreading bushy growth, exceptionally prolific.
Fruits: 5/16-3/8" diameter, about 1" long, similar in shape and type to RED CHILI, but smaller fruited; immature fruits are green tinged yellow, becoming scarlet when mature. Plants: 19-23" tall, erect, but upper part of plant has heavy bushy foliage, tending to be spreading; probably most prolific of all commercial peppers.
PUMPKIN Cucurhita spp

Cucurbita spp.

Fruits: 2½-4" deep x 6-7" in diameter, small, weigh 2½-3 lbs., smooth, medium hard, reddish-orange, slightly ribbed, flat globe. Flesh: thin to medium, deep reddish orange, fine textured, moderately dry, rich flavored, fiberless. Early, prolific inbred from SMALL SUGAR, developed at U. S. Horticultural Field Station, Cheyenne, Wyoming; finest quality winter pie or baking squash developed.
GOLDEN CUSHAW (YELLOW CUSHAW, GOLDEN WINTER CROOK-NECK) C. moschata
GREEN STRIPED CUSHAW C. moschata
Fruits: CUSHAW type with enlarged blossom end; about 12" long and 8" diameter at bulge, weigh about 12 lbs., hard, smooth surface; dark green stripe, alternate with light green. Flesh: Dark yellow or yellow orange, fine grained, good quality; useful as early canning type.
Fruits: Medium sized 10 x 12", weigh 15 lbs. Rind: Thick, tough, smooth, ribbed, and a dusty yellow color. Flesh: Moderately thin, coarse, fibrous, light orange, and is excellent for canning. Also used for feeding stock. Plants are prolific.
KING OF THE MAMMOTHS (POT IRON, JUMBO, MAMMOTH CHILL SQUASH) C. maxima
Fruits: Very flat, 6-7" deep x 12-15" diameter, heavy ribbing, dull orange surface with heavy bloom, weigh 12-15 lbs., hard shell. Flesh: Dull orange yellow, very thick, has very little fiber, good flavor.
SMALL SUGAR (NEW ENGLAND PIE, EARLY SUGAR) C. pepo 115-118 day. Fruits: Flattened globe, 8-9" deep x 10-12" diameter, moderately ribbed dark orange, glossy, hard surface, productive, weight 6-8 lbs. Flesh: Orange yellow, thick, fine textured, dry, sweet, excellent quality.

Fruits: 12-15" long x 9-10" largest diameter, medium large, weigh 12-15 lbs., pyriform or pear shaped, smooth, medium hard, cream or ivory with broad, barely noticed, light green stripes. Flesh; Yellow, very thick, moderately firm, coarse to medium texture, fair quality. Good winter storage strain.							
WHITE CUSHAW (JONATHAN) C. moschata							
WINTER LUXURY C. pepo							
RADISH Raphanus sativus							
EARLY VARIETIES							
Roots: Similar to SPARKLER, but color is half bright scarlet and half white; round to slightly olive shaped, medium size, very uniform. Tops: Short.							
CAVALIER							
CHARTIER (LONG ROSE)							
Roots: Saxa type though a trifle lighter in color, will stay solid longer and does not crack as does saxa. Tops: Similar to saxa. Not recommended for early spring out door planting. Unexcelled for greenhouse or hot-bed forcing. Excellent for late spring or early fall planting on all types of soil.							



WOODRUFF'S BEAUTY

CINCINNATI MARKET (LONG SCARLET SHORT TOP) . 28-30 days Roots: 5/8-7/8 x 6-7", long, slender, cylindrical, with tapering tips, fairly smooth, deep carmine; flesh white, crisp, tender. Tops: Short to medium.
COMET ALL-AMERICA AN SELECTIONS Silver Medal 1936 24 days Roots: SCARLET GLOBE type, scarlet color, small, crisp and solid. Tops: Short.
CRIMSON GIANT
FRENCH BREAKFAST
Roots: ½-¾ x 6-7", long, cylindrical to long tapering, snowy white; flesh clear white and brittle. Tops: Medium.
LONG BRIGHTEST SCARLET (CARDINAL) 26-29 days Roots: Earliest long forcing type; $\frac{5}{8}$ - $\frac{7}{8}$ x 4-5", long tapering; clear scarlet skin, with touch of white at tip; crisp, tender, white flesh; stands

well.
Tops: Medium.

Roots: 13/8", white flesh, crisp, round. Tops: Large, coarse.
A fairly early white variety used for forcing or outside culture.
SAXA (RAPID RED)
Roots: ½-5/8 x 5/8-3/4", thick, olive shape; ideal outdoor radish; intense scarlet skin and crisp white flesh. Tops: Medium, very uniform, giving attractive bunches. Should not use for summer planting because tops are too tall. Use SHORT TOP SCARLET GLOBE.
SCARLET GLOBE, SHORT TOP
SPARKLER WHITE TIP (EARLY SCARLET TURNIP WHITE TIP) 25-28 days Roots: ½-5/8" diameter, globe to short top shape, scarlet skin with bottom third clear white; crisp white flesh. Tops: Small to medium.
WHITE STRASBURG
WHITE STUTTGART (GIANT STUTTGART) 40-45 days Roots: Late summer and fall type; 2-3" in diameter, short topped or turnip shape, smooth white skin, crisp white flesh, mildly pungent; holds crispness well. Tops: Large.
WHITE VIENNA (LADYFINGER) 29-30 days Roots: ½-5% x 6½-7½", long, slender, long tapering; transparent white skin and flesh; crisp and tender. Tops: Medium large.
WOODRUFF'S BEAUTY

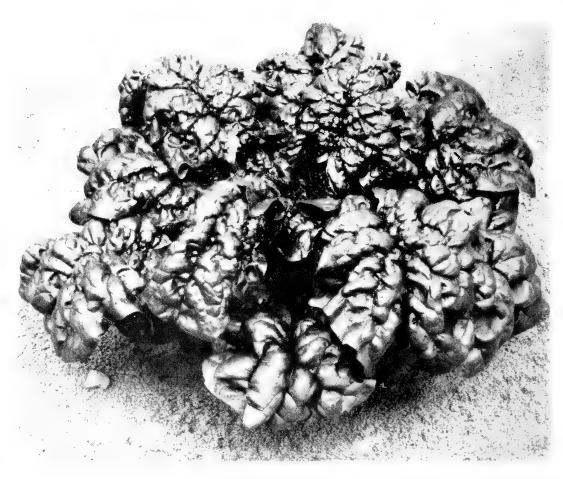
LATE OR WINTER VARIETIES

CELESTIAL (CHINESE WHITE WINTER, CALIFORNIA MAMMOTIWHITE)
Roots: 2½-3 x 8-10", long cylindrical, square shoulder, and blunt ti with tendency to bulge in midsection; creamy white skin, with crisp solid, snowy white, mildly pungent flesh. Tops: Very large, coarse, cut leaf.
CHINA ROSE WINTER (SCARLET CHINA) 50-54 day Roots: 2 x 7-8" slightly pyriform, blunt, smooth, bright rose, flesh white and pungent. Tops: Large, coarse.
HALF LONG GRAY
Roots: Long winter type; 2-2½ x 7-10"; long cylindrical with tapered tips; skin black and roughened; flesh white, pungent, crisp and solid Tops: Very large, coarse, cut leaf.
ROUND BLACK SPANISH
RHUBARB
Rheum rhaponticum
MYATT'S LINNAEUS Produces fine flavored, large, long stalks in second early season.
MYATT'S VICTORIA Vigorous growing main crop variety, producing excellent quality, thick red stalks.
SALSIFY (VEGETABLE OYSTER) Tragopogon perrifolius
MAMMOTH SANDWICH ISLAND

SORREL

Rumex acetosa

NARROW LEAF (SILVER LEAF)
SPINACH
Spinacia oleracea (p.s. means "prickly seeded"; r.s. means "round seeded.")
★BLOOMSDALE EXTRA DARK GREEN r.s
★BLOOMSDALE LONG STANDING r.s
Plants: Erect, compact, vigorous, bolts 2-4 days later than VIRGINIA BLIGHT RESISTANT SAVOY. fast growing early in spring. Leaves: Medium thick, glossy dark green, medium size, less savoyed than BLOOMSDALE LONG STANDING, lanceolate leaves appearing oval because of incurved edges, moderately tender, good quality.
A blight resistant variety developed at the Virginia Truck Experiment Station by the late Dr. H. H. Zimmerly, the result of a cross between old DOMINION and NOBEL. Plants: Large, flat growing, with well filled center. Grows rapidly, bolts early. Does best as a fall crop. Leaves: Long, broad and thick, with rounded to pointed tip. Slightly curved. Not as heavily savoyed as either VIRGINIA SAVOY or OLD DOMINION.
Plants: More erect and vigorous than LONG STANDING BLOOMSDALE, but otherwise very similar in type; very long standing type, usually holding a day or two longer than LONG STANDING BLOOMSDALE. Leaves: Very similar in type to BLOOMSDALE LONG STANDING, glossy dark green, very thick and extremely crumpled leaf, rounded incurved tip tender, good quality.



BLOOMSDALE LONG STANDING

★HEAVY	PACK	(VIKIN	G, 1	NORTH	LAI	ND)	r.s.	ALL-AMI	RICA (a)	SELECT	ions/	Silver
Medal	1935	•							•	•	44-46	ó days
Plants:	Very v	vigorous,	very	y large	and	sprea	ading.	, but	not	flat,	very	slow
bolt	ing; lea	ding can	ning	variet	y bec	ause	of he	avy :	yield			
Leaves	Verv	large, br	oad.	. arrow	sha	ped v	with:	round	ded '	tip.	thick	est of

all large leaved varieties, dark green, partially crumpled.

Plants: Very erect, medium long petioled type selected to keep foliage clear of ground under all conditions Compact and dense in center. This variety has been selected for ability to remain free of bolters for a longer time than LONG STANDING BLOOMSDALE.

Leaves: Thicker than BLOOMSDALE. Large, very dark glossy green. Heavy blister, savoy rounded, recurved tips, tender, good quality.

The very long standing HICURL Spinach is an improvement over LONG STANDING BLOOMSDALE because of more erect habit, high cutting position for mechanical harvesting, and clean dirt free leaves for the market gardener and canner.

Plants: Almost flat, spreading, vigorous, open habit, bolts earlier than most long standing types. Leaves: Thin to medium thick, medium to dark green, large, broad, arrow shaped, smooth to slightly crumpled, pointed tip, tender, good quality. Used chiefly in Far West for canning and freezing.
Plants: Semi-spreading, very compact, small, slow growing, very slow bolting Leaves: Very thick, very dark blue green, medium size, well savoyed, lightly crumpled, rounded tip, rounded oval shape, tender, crisp, excellent quality. Exceptional variety for home garden or market as late crop.
★KING OF DENMARK (ANTVORSKOF) r.s
NEW ZEALAND (EVERBEARING) Tetragonia expansa. Not a true spinach. Large, much branched, spreading plant produces succession of small, very thick and fleshy, pointed leaves on round, fleshy stems. Leaves and tips of branches are picked for cooking like Spinach. Vigorous grower and especially heat and drought tolerant. Seeds are large, horned, chocolate brown, slow germinating.
*NOBEL GIANT LEAVED (GIANT THICK LEAVED) r.s. **ALE-AMERICA **STREETHONS** Silver Medal 1933
★OLD DOMINION r.s
ROUND THICK LEAF (VIROFLAY, MONSTROUS VIROFLAY, ARAGON) r.s



HEAVY PACK

A new and better strain of LONG STANDING BLOOMSDALE or SAVOY. It has a darker green color, greater uniformity of plant growth and will stand several days longer without bolting to seed.

Plants: Erect, fairly compact, sparser leaved than LONG STANDING BLOOMS-DALE, very rapidly maturing spring strain, resistant to cold; used for fall planting

Leaves: Medium thick, medium dark green, moderately crumpled, medium broad, tapering to rounded point.

SQUASH

Cucurbita spp.

BUSH OR SUMMER VARIETIES

Flesh: Orange yellow, thick, sweet, firm and solid, free from fiber. Used

for pies.

BENNING GREEN TINTED SCALLOP 52-56 days

Fruits: Same as EARLY WHITE BUSH SCALLOP, but pale green tinted when young, becoming pale buff at mature seed stage.

Flesh: Green tinted white, tender, juicy.

BLACK ZUCCHINI

. . 60-64 days

Fruits: 10-12" long x 3-31/2" in diameter, cylindrical with square ends, ridged at stem end, similar in type to COCOZELLE, but dark greenishblack color over all.

Flesh: Greenish white, well flavored.



CASERTA

CASERTA ALL-AMERICA AUSELECTIONS Gold Medal 1949 . .

50 days

Fruits; 6-7" long by 1-11/4" thick at the market stage; light, glossy green with broken stripes of dark green. In the market it appears fresh long after picking.

Plant: Bush type. 30 fruits per plant are not unusual. Its deeply cut leaves make it resistant to wind damage.

Developed by Dr. L. C. Curtis and introduced by us, this is of the COCOZELLE type but is earlier and much more prolific.

COCOZZA LOUNGA Lagenaria leucantha var. longissima.

Fruits: 48-60" long x 6" in diameter, spatulate, edible fruit, cylindrical, very pale uniform green. The fruits must be eaten when very young and fruit soon becomes fibrous and hard shelled.

Flesh: Creamy white with slight green tinge under skin.

This is not a true squash, but is actually a gourd known commonly as "Hercules Club".

COCOZELLE VEGETABLE MARROW (ITALIAN VEGETABLE MARROW, COCOZELLA DI NAPOLI) 60-64 days

Fruits: 14-18" long x 3½-4½" in diameter, long cylindrical, straight prominent ridges at stem end, alternately striped dark and light green in edible stage, becoming dark green and dull yellow at maturity.

Flesh: Tender, juicy, fine flavored, white in edible stage.

CONNECTICUT STRAIGHTNECK, LEMON COLOR

Fruits: 8-10" long x 2½-3" apical diameter, straight sided, tapering slightly toward stem end, square tip with prominent blossom scar, moderately warted, pale or lemon yellow color in edible stage, occasionally green tinged, becomes medium yellow in mature seed stage. While not as prolific as EARLY PROLIFIC STRAIGHTNECK, this variety yields more pounds of early fruit. Being a massed-inbred variety, the plants are smaller and can be planted closer than other bush types. Developed by L. C. Curtis of the Connecticut Agricultural Experiment Station.

Flesh: Creamy yellow, tender, flavorful.

EARLY PROLIFIC STRAIGHTNECK All-AMERICA DELECTIONS Silver Medal 1938 51-55 days

Fruits: Inbred strain of GIANT STRAIGHTNECK and, like CONNECTICUT STRAIGHTNECK, small plant, permitting thicker stand. 8-10" long x 2-2", largest diameter, long, slender pear shape with rounded or abruptly tapered tip, smooth or sparsely warted; light yellow in edible stage becoming deep golden yellow in mature seed stage.

Flesh: Creamy yellow, excellent quality, firm.

Fruits: 8-10" long x 2½-3" largest diameter, long slim-pear shaped with curved neck, heavily warted, medium yellow in edible stage becoming dark or orange-yellow when mature for seed.

Flesh: Creamy white, fairly firm, juicy in edible stage.

EARLY WHITE BUSH SCALLOP (PATTY PAN) . . . 52-56 days

Fruits: $2\frac{1}{2}$ -3" deep x 5-7" in diameter in edible stage, disk or flared-bowl shape with prominent ribbing on edge of flare which gives escalloped appearance; creamy white in edible stage becoming chalky white at mature seed stage.

Flesh: Green tinged white, tender, juicy.

EARLY YELLOW BUSH SCALLOP (YELLOW PATTY PAN) 52-56 days Fruits: Same as EARLY WHITE BUSH SCALLOP but light to medium yellow in edible stage, becoming dull, golden yellow in mature seed stage. Flesh: Creamy white, tender, juicy.

ENGLISH VEGETABLE MARROW BUSH 55-60 days Fruits: 10-12" long x 3½-4" in diameter, cylindrical to slightly tapered towards stem, faint ribbing with smooth skin, pale greenish white.

FORDHOOK BUSH

Fruits: 1½-2 lbs., tapered toward stem, smooth, cream colored, slight

ribbed.

Flesh: Light yellow, very thick, dry, and sweet. This is bush strain.



BUTTERNUT

FORDHOOK VINING	62 days ne rather
than a bush.	
GRAY ZUCCHINI Fruits: Nearly cylindrical, straight, 18" long 4" diameter, mediu with grayish mottling. Flesh: Firm, good flavor.	60 days im green,
GREEN ZUCCHINI 60	0-62 days
Same as BLACK ZUCCHINI except that just a little lighter skin color	
GIANT SUMMER CROOKNECK	9-65 days
Fruits: Larger fruited and later than EARLY SUMMER CROOKNECT same type; 9-12" long x 3-3½" largest diameter at edible s coming much larger at maturity. Flesh: Same as EARLY SUMMER CROOKNECK.	k but the
GIANT SUMMER STRAIGHTNECK	9-65 days
Fruits: Same type as GIANT SUMMER CROOKNECK but 35-90% are straight instead of curved, making more desirable market some sections.	of fruits
Flesh: Same as EARLY SUMMER CROOKNECK.	
MAMMOTH WHITE BUSH SCALLOP 56	6-60 days
Fruits: Same as EARLY WHITE BUSH SCALLOP but later and large Flesh: Same as EARLY WHITE BUSH SCALLOP.	
MAMMOTH YELLOW BUSH SCALLOP (GOLDEN CUSTAR	(D) 6-60 days
Fruits: Same as MAMMOTH WHITE BUSH SCALLOP, but yellow. Flesh: Same as EARLY YELLOW BUSH SCALLOP.	,
WOOD'S PROLIFIC	2-56 days
Fruits: Selection of EARLY WHITE BUSH SCALLOP of same gene habit and fruit type. Selection made for deeper fruit and all ribbing on flange, giving fairly smooth, deep-bowl shape.	erai piani
Flesh: Same as EARLY WHITE BUSH SCALLOP.	
YANKEE HYBRID ALL-AMERICA AN SELECTIONS Bronze Medal 1941 . 50	0-54 days
This is a true single-cross hybrid, like the hybrid corns. The pa	arents are
an inbred strain of CONNECTICUT STRAIGHTNECK and an inbred EARLY PROLIFIC STRAIGHTNECK. The hybrid and the parent inbred	strain of reds were
all developed by Dr. L. C. Curtis of the Connecticut Station.	The plant
and fruit characters are intermediate between the parental types hybrid vigor or heterosis in this hybrid is seen not only in a litt	tle larger,
more vigorous plant, but chiefly in a more prolific development fruits. Because of this, YANKEE HYBRID is a very valuable and continuous contin	distinctive

contribution to gardeners who want heavy yields on the earliest market.

WINTER OR VINING TYPES

BLUE BANANA
Fruits: 18-20" long, 5-6" in diameter, long, nearly cylindrical, long convex-curved taper at both ends, weigh 10-12 lbs., skin medium hard
and smooth, slately blue green. Flesh: Medium thick, orange yellow, very fine textured, dry, fairly good quality; stores well.
BLUE HUBBARD
Fruits: 15-18" long, 9-12" largest diameter, bulged fusiform or cigar-shaped with symmetrical necks on both ends, weigh 12-18 lbs., slatey blue, skin very hard, thick and coarsely warted with irregular ribbing. Flesh: Thick to very thick, dull orange, fine textured, moderately dry and sweet, good flavor and quality.
BOSTON MARROW
Fruits: 12-15" long, 9-12" diameter; similar to HUBBARD in size and shape, weigh 7-9 lbs., hard, rough, dull orange skin. Flesh: Thick, orange-tinged golden, thick, moist, fine grained, sweet.
BUTTERCUP
Fruits: 6-8" in diameter, medium small, 3-4 lbs, shaped like a turban, slightly ribbed, dark green, faintly striped, slight mottling. Thin tough rind.
Flesh: Deep yellow to orange, dry, sweet, fine grained, excellent flavor. Developed by Dr. Yeager of North Dakota Agricultural College. It is highly productive and keeps well.
★BUTTERNUT
Fruits: 10-12" long, 4-5" in largest diameter, long pear shape, dull pale orange, weigh 3½-5 lbs., skin smooth and hard.
Flesh: Very thick, seed cavity only in bulbous end, very dry, ivory white, excellent flavor and quality, ideal home garden baking type. Very popular in the East.
DELICATA (SWEET POTATO) 80-90 days
Fruits: 8-10" long, $3\frac{1}{2}$ - $4\frac{1}{2}$ " in diameter, weigh 2- $3\frac{1}{2}$ lbs., cylindrical with narrow, shallow ribbing, alternate striping of cream and dark green, becoming cream and orange striped during storage; shell medium hard.
Flesh: Thin to medium, orange-yellow, very fine texture, crispy, dry tender, sweet, good flavor and quality; stores well.
★GOLDEN DELICIOUS 100-105 days
Fruits: 10-12" long 8-10" diameter, top shaped, bright reddish or tangerine orange with occasional green splotches at blossom end; weigh 6-9 lbs.; skin hard and smooth.
Flesh: Thick, deep orange, medium grained, dry with high starch content excellent flavor; widely used for canning and freezing

★GOLDEN HUBBARD (RED HUBBARD) Fruits: 10-12" long, 7-9" diameter, typical HUBBARD shape with symmetri-

cal "neck" on both ends, weigh 8-10 lbs.; skin hard, covered with large shallow warts, reddish orange skin with grayed stripes at blos-

som end.

Flesh: Thick, deep orange yellow, fine grained, dry; excellent quality for canning and freezing.

GREEN DELICIOUS 100-105 days

Fruits: Same as GOLDEN DELICIOUS except for skin color, which is very dark green with thin, light green stripe at blossom end.

Flesh: Same as GOLDEN DELICIOUS, but color is not as intense an orange. Excellent keeper.

IMPROVED HUBBARD (GREEN HUBBARD) . 105-115 days

Fruits: 12-15" long, 8-10" largest diameter, globular with taper at both ends, weigh 9-12 lbs.; dark ivy green frequently striped at tip with paler green, becomes bronzy green at maturity or during storage; skin very hard and thick, broad shallow irregular ribbing with moderately shallow warting.

Flesh: Medium thick to thick, deep yellow, dry, very fine grained, sweet,

crisp and tender, well flavored, good quality.

MAMMOTH TABLE QUEEN 90-100 days

Fruits: 7-8" long, 5-5½" in largest diameter, weigh 2-3 lbs., large fruited strain of TABLE QUEEN which is similar in shape and color.

Flesh: Medium thick, pale orange, tender, dry, sweet, flavorful; good keeper.



UCONN

Fruits: Similar to regular BANANA except exterior is deep pink. Flesh: Thick, solid, free from fiber, orange yellow, sweet.
TABLE QUEEN (DES MOINES, ACORN, YAMA) 90-100 days Fruits: 5-6" long, 4-4½" largest diameter, weigh 1-1½ lbs., acorn shape with prominent ribbing, very dark greenish black; smooth, fairly thin skin. Flesh: Thin, pale orange to deep yellow, tender, fairly dry and sweet with
good flavor. Old variety popular as individual baker; keeps fairly well.
Fruits: ACORN or TABLE QUEEN type, green skin, yellow flesh, but ridges more rounded than TABLE QUEEN. Plant: Bush type, occupying a space about 3 x 3'. Yield: 9 plants should produce a bushel of mature fruits. Developed by Dr. L. C. Curtis, this variety should appeal where space is limited.
WARREN TURBAN
WARTED HUBBARD (CHICAGO WARTED HUBBARD) 110-120 days Fruits: 12-14" long, 10-12" largest diameter, weigh 12-15 lbs., large fruited IMPROVED HUBBARD with heavy warting. Flesh: Same as IMPROVED HUBBARD.
TOMATO
Lycopersicon esculentum
RED FRUITED or YELLOW SKINNED, RED FLESHED VARIETIES
BONNY BEST
Vines: Medium sized plants, medium amount of semi-erect and spreading foliage, giving fair coverage to fruit, medium green, productive.
Fruits: Scarlet, medium small, average 4½-4¾ oz., smooth, uniformly globular, with index about 1.00, shallow, small core, cracks under extreme variations of dry and wet weather, 4-5 locules; carries uniform ripening gene and consequently has no dark green color
around stem. Vines: Very small, determinate, fair foliage, although poor coverage because of prolific set. Of same parentage as VICTOR but not the same; developed by Dr. A. F. Yeager and Mr. Harold Mattson of the North Dakota Agricultural Experiment Station.

Fruits: Orange-red, medium large, average 5½-6½ oz., smooth, irregularly globe shaped with index about 0.95; medium large core, fairly fleshy, only radial cracking and that very rarely, 4-6 locules, slow ripening and sun-scalding of stem ends are handicaps of this variety. Vines: Medium large plant, coarse, medium dense foliage, open and spreading giving poor coverage. Early market strain because of will and nail-head resistance, earliness and freedom from cracking.
CHALK'S EARLY JEWEL
Fruits: Scarlet, medium large, average 5½-6½ oz., smooth, globular with index of about 0.88, small core, firm fleshed, free from cracking; 5-7 locules. Vines: Similar to but more vigorous than BONNY BEST. Used in South for early tomato.
CRIMSON CUSHION (BEEFSTEAK, ENORMOUS, RED PONDEROSA)
90-100 days Fruits: Same characteristics as PONDEROSA but scarlet color; usually less irregular in shape. Vines: Same as PONDEROSA.
Fruits: Red, medium to medium large and of STONE type. Vines: Dwarfed, sprawling, very compact bush with dense foliage and moderate fruit set, dark green.
Fruits: Scarlet, medium size, average $4\frac{1}{2}-5\frac{1}{2}$ oz., usually smooth, distinct oblate with index about 0.68, irregular and variable, medium core, fairly fleshy, very susceptible to concentric ringing and moderate amount of radial cracking, 9-12 irregular locules. Vines: Small to medium plant, sprawling and open, with sparse to medium foliage, light green, prolific.
Fruits: Scarlet red, medium size, average 4 ³ / ₄ -5 ¹ / ₂ oz., smooth, almost globular, with index about 0.90, small core, very firm and fleshy, practically no cracking, very uniform type, 4-5 locules. Vines: Small to medium plant, fairly dense, giving fair coverage during early part of season when most of crop is matured, prolific.
GARDEN STATE

uniformly to good intermediate red.

Vines: Determinate growth, small and compact. Fruits set freely on crown sets. Should be heavily fertilized or planted on rich ground with good moisture retaining ability, adapted for northern New York and Canada.

Fruits: Medium size, approximately 5 ounces, slightly flattened globe, no ribbing, very small blossom and stem scars, uniform ripening to a

good medium red, thick walls and small core.

Vine: Medium to small, indeterminate, 4-5 foot spread. Plants require high fertility to respond to close economical planting. An early maturing variety with a heavy set at the crown and a rather large number of fruits per cluster. Valuable to a market gardener requiring a medium sized fruit or a canner interested in extending the packing season.

Fruits: Deep scarlet red, medium large to large, average 6-7½ oz., distinctly flattened globe with many fruits elliptical in cross section, index about 0.70; shallow hard core immediately below stem, with fruit usually multi-loculed or developing locules in central portion of fruit under stem, solid flesh and firm fruit, free from circular cracks, but radial cracks and splitting frequently found; 6-9 locules; one of leading canning varieties.

Vines: Large, bushy, spreading, foliage not as dense as MARGLOBE nor as coarse as RUTGERS, moderate coverage; usually productive under wide

variety of conditions.



LAKELAND

Fruits: Very similar in type to GREATER BALTIMORE, but more globular, slightly smaller, smoother fruited. Vines: Same as GREATER BALTIMORE, with denser and less spreading foliage, giving less sun scald in the Middle West.
GROTHEN'S GLOBE
Fruits: Large, smooth, semiglobe, and bright red in color. Vines: Prolific, self-topping. An improvement of the original PEARSON developed at the College of Agriculture, California. Popular for canning.
JOHN BAER
Fruits: Globe or slightly flattened globe, first fruits average about 6 oz., later ones 4-5 oz., seed cells medium to large, thick cell and exterior walls (good for green-wrap). Small stem scar, small to medium blossom scar. Free from radial and practically free from circumferential cracking. A heavy producer. Vines: Medium size, vigorous, fair to good coverage. Fruits bleach just before ripening, indicating readiness for picking for green-wrap. Slightly less susceptible than RUTGERS to fusarium and mosaic. Sets well in wet or dry growing season, but does not do well in a wet harvest season.
Fruits: Solid, heavy, 6-8 oz., globular to deep globular, smooth, small scar, and shallow basin at stem end. Thick walls, central mass solid with red color. Plants: Medium; with spread of 4-5½ feet, many branches. Small to medium leaves but abundant and remain in good condition late in the season. Adapted to northern New York and Canada.
Fruits: Deep scarlet, medium, large, average 6-7 oz., smooth, slightly oblate or almost globular, with index about 0.87, medium large pulpy core, very solid, free from circular cracking and radial cracks rarely found; 6-8 locules. Vines: Large plants, vigorous, erect and bushy foliage, giving good coverage to fruits, medium green, productive. Resistant to fusarium wilt.

126

GREATER BALTIMORE, INDIANA STRAIN (INDIANA BALTIMORE)

73-83 days

MICHIGAN STATE FORCING (Wilt Resistant) 80-85 days
Fruits: Deep scarlet, medium size, 3-5 oz., oblate globe, smooth at stem
end, small blossom scar, firm with very little core.
Plant: Sturdy, moderately compact, highly productive with fruits borne in clusters of five or more.
Developed by Michigan State College especially for greenhouse growing under reduced daylight conditions. One of the best of forcing varieties and adapted to outdoor growing in many areas.
PAN AMERICA 67-75 days
Fruits: Bright scarlet, medium large, average 6-7 oz., smooth, globular to deep oblate with index about 0.86, small core, moderately thick flesh, very thick outer wall, almost free of cracking, 5-8 locules.
Vines: Similar to MARGLOBE but smaller leaved. Good coverage of medium dark green leaves. Developed by W. S. Porte of U.S.D.A. for high resistance to nailhead rust and moderate resistance to wilt.
PENN HEART
Fruits: Similar to EARLIANA though more nearly globular and colors up better at the stem end, fewer seeds and a low jelly content.
Vines: Similar to EARLIANA.
PRITCHARD (SCARLET TOPPER) ALI-AMERICA D'SELECTIONS Gold Medal 1933 67-76 days
Fruits: Medium scarlet, medium size, average 5-6 oz., smooth, almost globular and characteristically show prominent shoulder; index about 0.85, medium sized pulpy core, solid, free from cracking, milder flavor than MARGLOBE; 5-7 locules.
Vines: Distinctly bushy because of self-pruning or self-topping character; heavy stem and coarser foliage than MARGLOBE, medium dark green, very productive.
RED CAP
Fruits: Red, medium size, average $4\frac{1}{2}$ - $5\frac{1}{2}$ oz., smooth, deep flat globe with index about 0.85, small core, medium thick flesh with thick walls, heavy, juicy, occasionally cracks radially, 5-7 locules, fairly uniform.
Vines: Medium size plants, medium coarse foliage, fairly compact and dense, gives good coverage, usually productive in northern areas, hardy and vigorous.
RED JACKET (GENEVA NO. 3)
Fruits: Large 5-8 oz. Viewed from the side they are slightly oblong and flattened. In cross section the side walls appear slightly thin, but the central mass is filled in solid. Rich scarlet red inside color.
Vines: Vigorous, large "potato" leaves, dense foliage offering good fruit protection, spreads 3½-5′. Many branches with blossoms free setting. Adapted to northern New York and Canada.



RUTGERS

Fruits: Deep or dark scarlet, medium large, average 6½-8 oz., deep oblate with tendency to ridging, index about 0.85, very large pulpy core of almost same intense color as outer surface of fruit; very sparse seeder with locules compressed against outer wall of fruit, very solid and firm; no circular cracking and rarely found with radial cracks; milder flavor than MARGLOBE; 6-8 locules.

Vines: Heavy, vigorous, bushy growth, coarser foliage than MARGLOBE, medium dark green, very productive.

Fruits: Bright scarlet, full ripe color to stem end, smooth globular; index about 0.85, medium sized fleshy core, thick walled, solid, rarely shows cracking; 5-7 locules.

Vines: Medium size, with spreading branches, moderately coarse open foliage which affords fair coverage; medium green, prolific.

Fruits: Red, globular, thick walled, medium size, juicy, good flavor.
Vines: Open, leaves are finely divided. Developed at the Nebraska Experiment Station. Ripens uniformly.

Fruits: Average 6½-8 oz., about 2¾" in diameter by 2½" deep, deep red, average weight .34 lb. Multi-locular, large core, does not carry the even-ripening gene, has some circumferential cracks.

Vines: Spreading, adequate coverage, hold up well because of resistance to early blight. Considerable resistance to late blight and blossom end rot, nearly immune to fusarium wilt and highly resistant to collar rot.

Developed by the Regional Vegetable Breeding Laboratory at Charleston, S. C., for the South, where it should be favored for canning, shipping and home gardens.

128

STOKESDALE
Fruits: Bright scarlet, medium size, average 5½-6 oz., smooth, almost globe shape; index about 0.90, large pulpy core, solid flesh, free from cracking; 5-7 locules. Suitable for canning in northern areas.
Vines: Medium sized, with moderate amount of semi-erect and spreading, coarse foliage which gives fair coverage, medium green, productive.
STONE
Fruits: Scarlet, large, average 7-8 oz., smooth, irregular, flat globe with index about 0.76, medium to large core, fleshy, firm, occasionally cracks; 7-9 irregular locules.
Vines: Large plant, heavy, erect foliage, very dense giving good coverage to peak of harvest, very dark green, productive, and vigorous.
VALIANT
Fruits: Bright scarlet, globe shaped, fairly large. Vines: Open and sparse. Adapted to short season areas for early market.
VICTOR ALL-AMERICA ALL-AMERICA ALL-AMERICA Bronze Medal 1941 60-70 days
Fruits: Scarlet, medium small, average 4½-4¾ oz., smooth, uniformly globular with index about 1.00, small shallow core, star cracks only under extreme variations of drought and wet weather; 4-5 locules; carries uniform ripening gene the same as BOUNTY.
Vines: Small, determinate or self topping, fair foliage with poor coverage because of excessively prolific set. Related to BOUNTY and released by Dr. A. F. Yeager at the Michigan Agricultural Experiment Station; usually little earlier than BOUNTY and heavier set of fruits.
WISCONSIN 55
Fruits: Very good color, slightly wider than deep, generally larger than STOKESDALE and with better color and quality. Quite free from cracking and ridging.
Vines: Vigorous under fertile conditions, somewhat tolerant of early blight. Sunscald is not usually a problem. Developed by the University of Wisconsin. Popular as a canning variety.
PINK FRUITED or COLORLESS SKINNED, RED FLESHED
VARIETIES
BRIMMER (IMMENSE) 85-94 days
Fruits: PONDEROSA type, pink, large, average 7-9 oz., smooth distinctly oblate with index about 0.65, small, shallow core, very fleshy with irregular cell structure. Occasional small radial cracks; 7-10 locules. Smoother, more uniform fruits than PONDEROSA.
Vines: Large plant with long indeterminate branches; medium dense foliage, semi-erect, giving good coverage under most conditions, medium gray green fairly productive.

tions is not too well covered; 4-6 locules. Vines: Very distinctive, compact, dwarfed branches on heavy, erect, single stem, giving tree-like shape, dwarfed leaves, but very dense coverage, extreme dark green, sparse fruit set, easily damaged by aphis because of plant type. EARLY DETROIT 79-88 days Fruits: Carmine, medium large, average 5½-6½ oz., fairly smooth, deep flat globe with index about 0.78, shallow medium sized core, medium fleshy, firm, fairly susceptible to radial cracking, 5-7 locules. Vines: Medium size plant, medium dense foliage gives moderate coverage, medium green, fairly productive. **GULF STATE MARKET** 80-90 days Fruits: Pink to carmine, medium large 5-6 oz., smooth, nearly globular with index about 0.86, small core, firm, fleshy, thick walled, only occasional radial cracking, 5-8 locules. Used in Gulf States for canning and green wrap shipping. Vines: Medium sized plant, sprawling habit with up-curved tips giving moderately dense foliage and fair coverage, retarded indeterminate growth, giving appearance of being self-topping, dark yellow green, moderately productive. JUNE PINK (PINK EARLIANA) Fruits: Most easily described as a pink fruited EARLIANA. Fairly free from concentric ringing and radial cracking. Vines: Very much like EARLIANA. LIVINGSTON'S BEAUTY (BEAUTY, TRUCKER'S FAVORITE) Fruits: Pink, medium large, average 6-7 oz., fairly smooth, flat globe with index about 0.72, small to medium core, large placenta, firm fleshed, cracks very rarely; 5-9 locules. Vines: Large plant, heavy foliage, well branched, giving good coverage, medium green, very productive. This is an old variety noted for vigor and adaptability. LIVINGSTON'S GLOBE (GLOBE) . 74-83 days Fruits: Bright carmine, medium large, average 6-7 oz., smooth, uniformly globular, with index about 1.00, shallow core, very fleshy and solid, almost never shows cracking; 5-7 locules. Vines: Large, vigorous plant, medium dense foliage, gives fair to good coverage, fairly tolerant of heat and drought, dark yellow green, usually prolific and uniform. LOUISIANA PINK

Fruits: Deep pink, medium large, average 5½-6½ oz., fairly smooth, flat globe with index about 0.70, medium core, moderately thick and firm flesh, cracks and burns readily, but under average growth condi-

84-93 days

DWARF CHAMPION (TREE)

resistance to wilt and nail-head rust.

A strain of LIVINGSTON'S GLOBE developed by University of Louisiana for

OXHEART
Fruits: Bright pink, large, average 8-12 oz., fairly smooth, pointed ovate or "oxheart" shape, with index 1.10 to 1.40, small to medium core, very heavy flesh and placental development making very small locules pressed against outer wall; almost never cracks; 5-9 locules.
Vines: Very large plant, coarse, dense foliage, spreading, with upcurved tips giving good coverage during early harvest; medium slatey green, sparse set except on high levels of fertility. Home garden and local market type, valued chiefly for fruit size and distinctive shape.
PONDEROSA
Fruits: Rose or purplish-pink, very large, average 8-11 oz., fairly smooth skin but irregular and variable shape, mostly distinct oblate with index 0.50 to 0.60, many fruits are oval in cross-section, medium to large core, very fleshy, often cracks and has ridged surface; 7-12 irregular locules.
Vines: Large plant, heavy coarse foliage, moderately dense, gives good coverage, very spreading and branched, medium green.
GOLDEN OXHEART (YELLOW OXHEART) 88-97 days
Fruits: Same as OXHEART, but bright golden yellow.
Vines: Same as OXHEART.
GOLDEN PONDEROSA (YELLOW PONDEROSA) 90-100 days
Fruits: Same as PONDEROSA but bright golden yellow.
Vines: Same as PONDEROSA.
GOLDEN QUEEN (TROPHY) 80-89 days
Fruits: Deep golden yellow, medium size, average 4½-5½ oz., smooth, occasionally becoming russeted and pink blushed on portions of fruit exposed to sunlight, deep flat globe with index about 0.85, small core, firm, meaty, rarely cracks, mild flavored; 4-6 locules. Vines: Medium large plant, moderately dense foliage, giving good coverage, bright medium green, prolific, fairly heat and drought tolerant.
JUBILEE ALL-AMERICA DISELECTIONS Bronze Medal 1943 80 days
Fruits: Large, globular, smooth, bright golden orange, mild flavored and of excellent quality. Interior meaty, thick walled and with few seeds.
MINGOLD ALL-AMERICA AUSTLECTIONS Silver Medal 1940 74-83 days
Fruits: Bright golden yellow, medium size, average 4-5 oz., smooth, globular with index about 0.90, small core, fairly solid, no cracking; 4-5 locules, very uniform. Developed at Minnesota Agricultural Experiment Station as early prolific yellow variety.
Vines: Medium small, semi-spreading, medium dense foliage, giving fair coverage, medium green foliage, very prolific. Excellent home garden or local market strain where yellow fruit is desired.

SMALL FRUITED VARIETIES

LARGE RED PLUM	
Fruits: Italian type, deep scarlet, small size, average 2-3 oz., almost square cross section, index 1.7 to 2.2; usually 2 locu terized by pepper-like placenta separate and distinct from thick fleshed, dry, deep scarlet. Used in paste and puree.	led charac-
Vines: Medium sized, more erect than other varieties, somewher fruit borne in clusters or hanks, very prolific.	what open;
RED CHERRY	
Vines: Large plant with spreading, much branched foliage, dark green, very prolific.	dense and
RED PEAR	•
SAN MARZANO	in clusters.
Vines: Medium, somewhat open and upright, heavy yielding, foliage. Used by canners for whole canning and tomato puree.	
STRAWBERRY (YELLOW HUSK, GROUND CHERRY, DWA GOOSEBERRY) Physalis pubescens	
Fruits: Deep golden yellow, very small, globular cherry size, transparent dark yellow when dead ripe and very rich honeyborne in paper-like husks. This member of the Nightsh makes an excellent preserve.	like flavor;
Vines: Sprawling, medium size, smooth leaved, medium green prolific, heat and drought tolerant.	, extremely
YELLOW CHERRY	
YELLOW PEAR	
YELLOW PLUM	

TURNIP

Brassica rapa

WHITE FLESHED VARIETIES

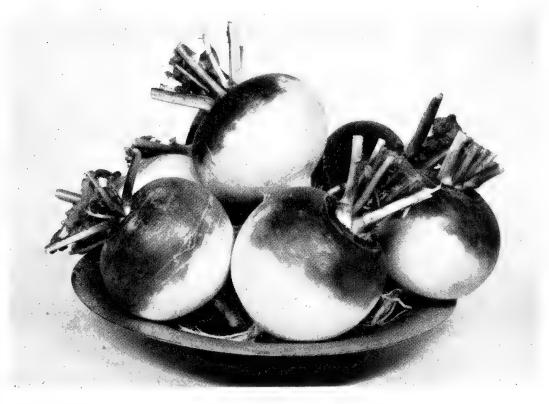
COWHORN (LONG WHITE)	70-75 days
Roots: 9-12 x 2½-3", long, tapered, white, light green shou tion exposed above ground, fairly smooth, occasionally t medium to large tap roots; flesh white, sweet and tender. for stock food but very palatable while small and young. Tops: 18-22", medium green, erect, coarsely toothed leaves.	wisted roots,
EARLY WHITE FLAT DUTCH	40-45 days
Roots: 1½-2 x 3½-4½", distinct flat globe, white, smoot root; flesh white, tender, fine grained, sweet. Early van South for home garden and local market. Tops: 10-14", medium green, strap leaved, erect, small collars.	riety used in

POMERANIAN WHITE GLOBE (LARGE WHITE GLOBE, NORFOLK)

75-80 days

Roots: 4-5½" in diameter, globe to flattened globe, white skin and flesh; smooth, solid, moderately coarse textured.

Tops: 18-24", medium light green, semi-erect, cut leaved.



PURPLE TOP WHITE GLOBE

PURPLE TOP MILAN (EXTRA EARLY PURPLE TOP MILAN) 40-45 days Roots: 3-4" in diameter, very flat, white with purplish-red tops, smooth, small tap root; flesh snow-white, tender, sweet. Excellent early home garden and forcing type. Tops: 10-12", medium green, strap leaved, erect, small collar. PURPLE TOP STRAP LEAVED (EARLY FLAT RED) . . 45-48 days Roots: 3½-5" in diameter, distinctly oblate, white with purple top on portion of root above ground, smooth, small tap root; flesh is snowwhite, mild flavored, sweet. Tops: 14-18", medium green, obovate strap leaved, erect, medium collar. **PURPLE TOP WHITE GLOBE (RED TOP WHITE GLOBE)** . 58-63 days Roots: 3½-4 x 3½-4½", globe to slightly flattened globe, clear white with purplish tinged red top, smooth, small tap root; flesh is snow white, tender and crisp; very succulent. Tops: 12-16", medium green, notched, spiny leaves terminating in small, compact collar, which makes for erect growth. SEVEN TOP (SOUTHERN PRIZE) Grown as winter annual in South for greens; very prolific sprouting of leaves early in spring make rapid, tender growth and produce heavy yield of good quality foliage for food; roots are woody, tough and inedible. SHOGOIN (JAPANESE FOLIAGE) 35-40 days Roots: 2-4 x 1½-2½", medium size, oval, snowy white, mild, tender and crisp; useful as dual purpose crop for roots and greens. Tops: 18-22" tall, bright green, strap leaved, vigorous and fast growing, heavy set of fine leaves, very erect from small collar, gives excellent quality greens; foliage partially resistant to aphids. SNOWBALL (WHITE SIX WEEKS) Roots: 2½-3" in diameter, globular, uniform, ivory white, smooth, small tap root; flesh juicy, crisp, sweet, fine-grained. Used as home garden and forcing strain. Tops: 10-14", erect, medium yellow green, cut leaved. WHITE EGG . 52-57 days Roots: 3-4 x 2½-3", ovate or egg-shaped, white, occasionally green tinged on exposed portion of shoulder, smooth, small tap root; flesh translucent white, tender, sweet. Tops: 13-17", compact, erect, medium green, cut leaved, small collar. WHITE MILAN (EXTRA EARLY WHITE MILAN)

134

Roots: Same as PURPLE TOP MILAN but clear white skin.

Tops: Same as PURPLE TOP MILAN.

40-45 days

YELLOW FLESHED VARIETIES

AMBER GLOBE (YELLOW GLOBE, YELLOW STONE) 73-76 days Roots: 4½-6" in diameter, globular, yellow with bronzy tops, smooth, small to medium tap root; flesh creamy yellow, medium to coarse textured, good quality. Used chiefly for stock feed, but suitable for table use when young. Tops: 15-19", green, erect, cut leaved.
GOLDEN BALL (ORANGE JELLY)
PURPLE TOP YELLOW ABERDEEN
RUTABAGA or SWEDE
Brassica napobrassica
AMERICAN PURPLE TOP
BUDLONG (BREADSTONE, WHITE ROCK, WHITE FRENCH) 82-86 days
Roots: 5-7 x 4-6", medium large, thick oval to globe shape, white with small green neck; flesh white, tasteful, fairly solid. Equally good for table use or stock feed.
Tops: 12-16", erect, blue green, smooth, cut leaved, based on small neck.
GOLDEN NECKLESS (EARLY NECKLESS) 80-84 days Roots: 6-7 x 3½-4½", smaller, uniform earlier selection of AMERICAN PURPLE TOP. Tops: Similar to, but smaller than AMERICAN PURPLE TOP.
•
Roots: 6-8 x 3½-5", large, short top, deep buff with purple top; flesh is firm, tender, fine textured and light buff. Our stock specially selected for uniformity of growth, sparseness of fibrous roots, and smoothness of skin. Tops: 16-20", vigorous, hardy, erect, blue green; smooth, partially toothed leaves based on small neckless collar.

SWEET GERMAN (MACOMBER, SWEET RUSSIAN, WHITE SWEDE)

89-92 day

Roots: 6-9 x 4½-6½", large, short, thick top shape, white with bronzed green shoulder, medium neck, flesh creamy white, solid, sweet. Used for winter storage for table use and stock feed.

Tops: 16-22", vigorous and hardy, semi-erect, dark blue green, cut leaved,

based on medium neck.

WATERMELON

Citrullus vulgaris

Citrullus vulgaris
ALABAMA SWEET (BRADFORD)
An excellent southern shipping variety, highly resistant to fusarium wilt and good also for local trucking The fruits are cylindrical and blocky, averaging about 30 lbs. It has a tough, thick dark green rind, and deep red flesh of the finest quality. The medium sized seeds are black.
BLUE RIBBON (BLUE RIBBON KLONDIKE)
BLUE WATSON
BURRELL'S GRAY
CHILEAN BLACK SEEDED
CHILEAN WHITE SEEDED
CITRON, COLORADO RED SEEDED

Same as RED SEEDED CITRON, but slightly larger and with glossy green seeds
A WATSON type of melon with a tough rind for distant shipping. The quality is excellent and fruits are large and cylindrical, weigh 30-35 lbs. The rind is a mottled dark green with a lighter green background. The seeds are brown.
An old standard northern variety for home garden and local markets Fruits are broad oval, and weigh 15-20 lbs. The flesh is red and of fai quality. The rind is dark green with lighter green stripes, thin and tender Seeds are black and of medium size.
An old shipping variety with large, black seeds. The flesh is red and hat fairly good flavor. Fruits weigh 25-30 lbs. and have a tough rind with alternating dark and light green irregular stripes.
CUT RED WATSON



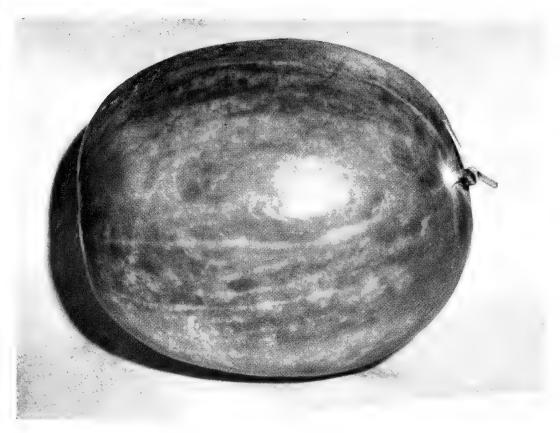
DIXIE QUEEN

A very large and sweet melon for local southern markets, with fruits that weigh 30-40 lbs. The flesh is bright red, sweet and tender, the rind thin and tender with irregular dark green stripes and veining on a light background. The seeds are white.
One of the most popular varieties in the South for shipping and in the North as well. Fruits weigh 30-35 lbs., and are nearly round with square ends. The skin is light green with dark green stripes, the rind thin and tough. The bright red flesh is of finest quality, and the seeds are small and white.
DIXIE QUEEN, WILT RESISTANT 80-85 days. This strain differs from the regular DIXIE QUEEN in being resistant to fusarium wilt, with a tougher rind, redder flesh and somewhat larger seeds.
A large, long, cylindrical melon with blunt ends and a hard, thin rind which is very light green with irregular stripes of dark green. In the South it is used for local markets and distant shipping. The flesh is bright red sweet and solid. Seeds are white, edged with light brown.
This is one of the "icebox" types of melon, which has really good quality though small in size. Fruits are globular to slightly elongated, 8-10" in length and weigh 5-8 lbs. The rind is thin, medium tough, medium green with inconspicuous dark green broken stripes. The flesh is medium red to pink and medium fine grained. The seeds are very small, dark brown. This melon matures in Connecticut early in August.
EARLY KANSAS (KANSAS QUEEN, INDIANA STRIPED, KANSAS RED SEED)
A southern shipping variety of indifferent quality, fruits 20-25 lbs., oblong in shape. The dark green rind is tough, the flesh deep red. The seeds are white and medium sized.
FLORIDA FAVORITE
FLORIDA GIANT (CANNON BALL, BLACK DIAMOND). 90-95 days A fine shipper, vigorous and productive, with fruits averaging about 40 lbs., large, nearly round and with a hard, tough and very dark green rind. The seeds are large, mottled dark brown, the flesh bright red, coarse grained, high quality and firm.

GEORGIA RATTLESNAKE (GYPSY) 85-90 days A fairly good shipper, this variety has large, long fruits which are graygreen with irregular darker green striping. The rind is tough. The flesh has good quality, the seeds are large, ivory white with black tip.
GOLDEN HONEY (GOLDEN SWEET, HONEY CREAM) . 85-90 days The flesh of this small melon is a bright yellow, with fine flavor. Fruits are round or nearly so, about a foot in diameter, and average about 20 lbs. The rind is dark green with irregular darker green stripes. The seeds are brown.
GRAYSTONE ALEAMERICA DISELECTIONS Silver Medal 1933 90-95 days Adapted to home gardens and nearby markets in the South. The rind is thin, tender, mottled gray-green, and bruises easily. Fruits weigh 30-35 lbs., are very large, oval-round and of the STONE MOUNTAIN type. The flesh is of excellent quality, bright red, the seeds medium sized and white.
A melon similar to KLECKLEY'S SWEET, with large, cylindrical, blunt ended fruits which grow to 30-35 lbs. The rind is tender and thin, dark green and lightly veined. The flesh is bright red and of fine flavor, the seeds medium sized, white with black tip.
HAWKESBURY (GRAY SHIPPER)
HUNGARIAN HONEY
A home novelty. "Icebox" is a term indicating a type rather than a variety, and several varieties small enough to fit conveniently in a refrigerator are given this name. The fruits are small, the rind thin, the flesh may be red, orange and white, the seeds usually black.
IRISH GRAY
KLECKLEY'S SWEET (WONDERMELON, IMPROVED KLECKLEY)
Not suitable for shipping, but ideal for home gardens, with fruits weighing

Not suitable for shipping, but ideal for home gardens, with fruits weighing 30-35 lbs., which are large, cylindrical, dark green with slight ribbing. The rind is thin and tender, the flesh bright red, high quality; the seeds large, white with occasional traces of brown.

A wilt resistant melon developed by Dr. J. J. Wilson at the Iowa Agricul-cultural Experiment Station. Of the same type as KLECKLEY'S SWEET, but with a thin, tough rind, and white seeds.
KLONDIKE, BLACK SEEDED
A variety resistant to fusarium wilt, developed at the College of Agriculture, Davis, California. Fruits average about 25 lbs., are oblong and taper slightly at the blossom end. The dark green rind is thin but tough. The flesh is a brilliant red, the seeds small and vary from tan to black.
KLONDIKE, STRIPED
A development from KLECKLEY'S SWEET by Dr. M. N. Walker of the Florida Experiment Station, and the fruits resemble that variety but are shorter and more blocky, weighing 25-28 lbs. The variety is wilt resistant. The rind is dark green and tough, the flesh light red and very sweet, with medium sized, white seeds.
A fairly good shipping melon of medium size (25-30 lbs.), oval to long oval. The rind is thin and tough, light green with narrow stripes of darker green. The deep red flesh is of excellent quality, with white, medium sized seeds.
LONG LIGHT ICING (GRAY MONARCH) 90-95 days A long, cylindrical melon, 25-30 lbs., with a thin, light green rind mottled with darker green. It has deep red flesh of good quality, and medium sized, white seeds.
A very large, oval-round melon with blunt ends, which reaches a weight of 50-60 lbs. It has a dark green, tough rind, bright red flesh of finest quality. The medium sized seeds are white, edged with black.
An old variety for home garden and local markets only. Fruits weigh about 20 lbs., are medium large, oval. The rind is fairly thick and dark green, the flesh sweet, dark red. The black seeds are of medium size.
A variety with a rind tough enough for long distance shipping. The fruits are round with dark green stripes on a lighter green ground, and average about 30 lbs. The flesh is of good quality, bright red, with white seeds.



STONE MOUNTAIN

OWEN'S GRAY (ARNELL'S GRAY, ARNOLD'S GRAY, GRAY JACKET)

85-90 days

This variety has some drought tolerance and produces fruits weighing 25-30 lbs., of long oval shape. The rind is medium thick, tough, pale greenish white with darker green veins which give it a gray appearance. The flesh is firm, sweet, bright scarlet and without stringiness. The seeds are of medium size, brownish, blotched white.

PEERLESS (ICE CREAM) .

85-90 days

A good home garden melon with medium size, oval fruits, 18-20 lbs. The rind is thin, bright green with darker green veining. The flesh is of good quality, bright red, with white seeds of medium size.

ROUND LIGHT ICING

90-95 days

A home garden variety, with thin, tender rind which is pale green and lightly veined. Fruits average 20-25 lbs. and are a broad oval shape. The flesh is light red and of good quality, with white, medium sized seeds.

SCHOCKLER

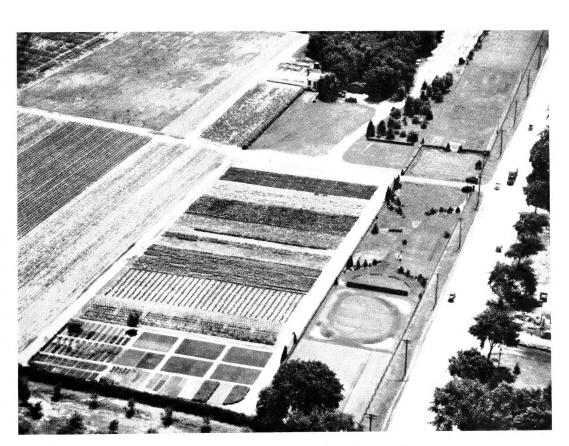
90-95 days

The variety originated in Texas and has a hard, tough, dark green rind with faint striping. A good shipper, with dark red flesh of fair quality, coarse grained. The seeds are large, brown. Fruits weigh 40-50 lbs., are very long and cylindrical.

The rind of this melon is hard and fairly tough, medium green with slight veining. The fruits are very large (35-40 lbs.), round-oval with blunt ends. The flesh is bright red, very sweet and of good quality. The seeds are medium sized, white with black tip.
STONE MOUNTAIN NO. 5
An improved STONE MOUNTIAN, slightly larger than that variety, oval in shape, with a hard and tough rind which is medium to dark green. The flesh is bright red, very sweet and stringless. The seeds are white with black tip.
SWEETHEART
TENDERSWEET (BANKHEAD)
TEXAS SWEETHEART (TEXAS SWEET) 90 days A very large melon averaging 30-45 lbs. with fruits an elongated oval shape. The rind is tough, medium to dark green with irregular or mottled lighter stripes. The flesh is red and very sweet. The seeds are very small, black, with small white speckles.
A wilt resistant variety with large, long, cylindrical fruits which weigh 35-40 lbs. The rind is exceedingly hard and tough and is light green with darker veining. The flesh is deep red and fine quality. The seeds are brown, medium sized.
TOM WATSON
U.S.D.A. 46-40

A very small, early, "icebox" type developed by the New Hampshire Agricultural Experiment Station. The fruits weigh about 5 lbs., are nearly round, with a thin, light green rind with darker stripes. The flesh is sweet and red, the seeds small, dark brown. The fruits are large, 30-45 lbs., cylindrical and blocky, somewhat like a long type of FLORIDA GIANT. The rind is tough, dark green. It has bright red flesh of good quality. The seeds are black. WINTER KING (WINTER QUEEN) 90 days The fruits are round and smooth, and weigh about 15 lbs. The rind is thin and tough, a light green faintly striped. It has bright red flesh of good quality, with small, blackish seeds. WINTER KING, GRAY SEEDED (CHRISTMAS) . . . 90 days Except for seed color, this is the same as WINTER KING, but can be kept

until Christmas if coated with wax.



LOCATED ON ROUTE U. S. 1 (BOSTON POST ROAD), PART OF OUR BREEDING AND TRIAL GROUNDS AT MILFORD, CONN.



